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The



# CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2901  
VOL. CXXIII

SEPTEMBER 14, 1935

Annual Subscription (with  
Diary) 20/- Single Copies 9d.

## Macfarlan Products

*..synonymous with dependability*



MORPHINE, CODEINE,  
APOMORPHINE, DIAMORPHINE,  
ETHYL MORPHINE, AND  
PAPAVERINE, ETC.

ATROPINE, EMETINE,  
SERINE, HYDRASTINE,  
STRYCHNINE, PILOCARPINE

ALAP, PODOPHYLLIN AND  
CAMMONY RESINS

ALOID, CHRYSAROBIN, SALICIN  
EUNYMIN, IRIDIN  
LEPTANDRIN  
POLY. IPECAC. CO.

OPIUM, RAW AND POWDER



## J. F. MACFARLAN & Co

Established 1780

109 Abbeyhill, Edinburgh; 32 Beltnal Green Rd., London, E.I. Works: Abbeyhill & Northfield, Edinburgh

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# Aspirin?

## "He-flo" of course!

Made by  
W. J. Bush & Co. Ltd.

Sold by  
H. W. Graesser-Thomas, Ltd.  
49, Leadenhall St. London, E.C.3



# Tell your customers...

that HOUBIGANT Preparations  
bought from you are identical with  
those they could buy in PARIS...

In fact :

1° - all HOUBIGANT Preparations  
come direct from FRANCE ;

2° - all HOUBIGANT Preparations  
are manufactured exclusively at  
NEUILLY-sur-SEINE, near PARIS,  
under the watchful eyes and the  
personal supervision of their creators ;

3° - they are sold with the guarantee  
of a perfect and unchanging quality  
which is always standard.

And, to co-operate with you,  
a powerful National Advertising  
Campaign, full pages only,  
is running in :

VOGUE, SKETCH, TATLER

BRITANNIA & EVE, EVERYWOMAN'S, NASH'S  
GOOD HOUSEKEEPING, WOMAN & HOME  
WOMAN & BEAUTY, PICTUREGOER, FILM WEEKLY

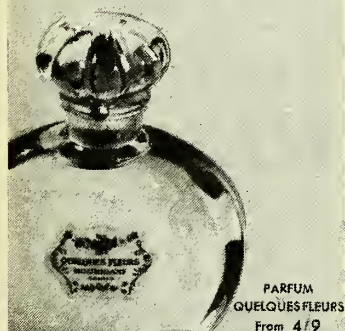
## HOUBIGANT

HOUBIGANT Preparations are obtainable  
from your usual Wholesaler, or direct from

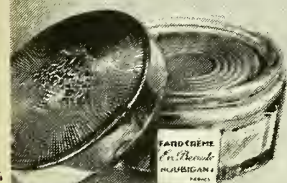
PARFUMERIE HOUBIGANT  
19, RUE DU FAUBOURG SAINT-HONORÉ, PARIS

THE PERFUMERY MARKETING CO.  
Princes House  
190, PICCADILLY, LONDON

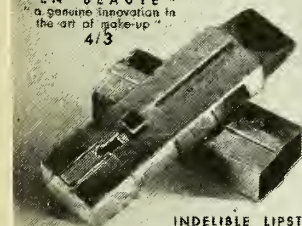
will be pleased to reply to any enquiry.



FACE POWDER  
QUELQUES FLEURS  
1/6 2/6 4/6



CREAM ROUGE  
" EN BEAUTÉ "  
" a genuine innovation in  
the art of make-up "  
4/3



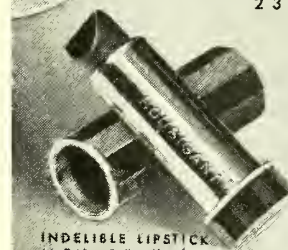
INDELIBLE LIPSTICK  
" EN BEAUTÉ "  
Sliding Tube  
3/-



VANISHING CREAM  
" EN BEAUTÉ "  
QUELQUES FLEURS  
Tubes : 1 - and 3 -



DRY ROUGE  
" EN BEAUTÉ "  
2/3



INDELIBLE LIPSTICK  
" EN BEAUTÉ "  
New Model Propelling Case 4/6  
Refill 2/-



## HAVE YOU A PROPRIETARY LINE TO MARKET ?

If you are thinking of marketing a new Chemist's line, or are anxious to increase the sales of an old one, we shall be glad to help, provided your product does not clash with:—

'ASPRO' . CONDY'S FLUID  
MEDILAX LAXATIVE PELLETS  
AVA SHAMPOO AND AVA SOAPS  
DR. JENNER'S ABSORBENT LOZENGES  
NDK DENTIFRICE . PROMONTA  
TOUZEAU SAUNDERS POWDER  
KEST EPSOM SALTS TABLETS  
NINONA COLD CREAM . VITALIFE  
RESTORENE HAIR TONIC  
DR. PIERRE'S DENTIFRICE  
SAVORY & MOORES PEPTONISED  
COCOA AND MILK

*Use our specialised knowledge  
of the Proprietary Article  
market to help you to success.*

**RING MUSEUM 8060**

# **SAMSON CLARKS**

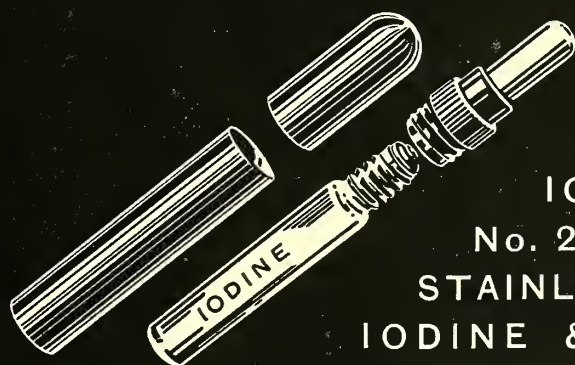
(SAMSON CLARK & CO., LTD.)

*Incorporated Practitioners in Advertising*  
**57-61 Mortimer St., London, W.1**



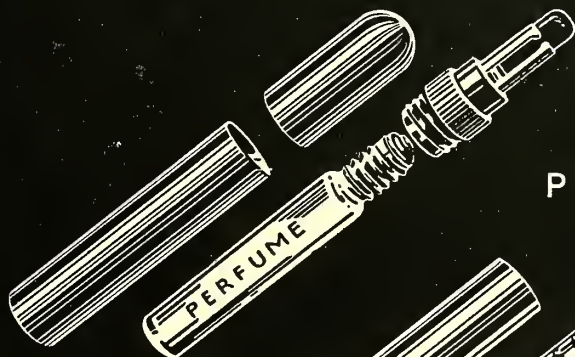
# PENCILS HAX

4/-  
DOZ.



No. 1  
B.P. TINCTURE OF  
IODINE & STYPTIC

No. 2  
STAINLESS TINCTURE OF  
IODINE & STYPTIC



No. 3  
LIPSTICK AND  
PERFUME



No. 4  
ASPIRIN &  
EAU DE COLOGNE

ALL REFILLS 2/- DOZ.  
EXCEPTING TABLETS OF  
ASPIRIN WHICH ARE 8<sup>D</sup> PER DOZ.  
(TUBES)

**ORDER TODAY FROM YOUR WHOLESALE**

WHOLESALE HOUSES ONLY SUPPLIED DIRECT BY THE  
PROPRIETORS OF HAX AND ANTI-THRAX PRODUCTS  
EDWARD HACK LTD., 73 TO 78 HIGH HOLBORN,  
LONDON, W.C.1. HOLBORN: 1000, 6000, 9000

# SPECIAL BONUS

## PARCEL

SEPTEMBER

16

OCTOBER

14

### FOR

# OSTOMALT

## 4 VITAMIN MALT

Stock now and be ready for the winter—at bonus, big profit terms. This offer is open for one month only. Parcels supplied on strict understanding that a display will be made. *Special* new display piece and booklets included. Orders received during September will not be despatched and invoiced until October 1st unless otherwise requested. Order direct from Glaxo Laboratories or from Sangers Ltd., Euston Road, N.W.1.

EVERY PARCEL INCLUDES ONE DOZEN  $1\frac{3}{4}$  OZ. SAMPLES—FREE.

$\frac{3}{4}$ dozen x $\frac{1}{2}$ lb. jars @ 1/9 less 25% -	-	-	-	11	10
---	---	---	---	----	----

3 x $\frac{1}{2}$ lb. jars FREE -	-	-	-	-	-
-----------------------------------	---	---	---	---	---

$\frac{3}{4}$ dozen x 1 lb. jars @ 3/- less 25% -	-	-	-	1	0	3
---	---	---	---	---	---	---

3 x 1 lb. jars FREE -	-	-	-	-	-
-----------------------	---	---	---	---	---

	1	12	1
--	---	----	---

The above sells for -	-	-	2	17	0
-----------------------	---	---	---	----	---

Showing you a profit of -	£1	4	11
---------------------------	----	---	----

—78% on cost. 44% on turnover.

Not available in I.F.S. or Channel Islands.

**SHOWS**  
**44%**  
**PROFIT ON**  
**TURNOVER**

GLAXO LABORATORIES, 56 OSNABURGH STREET, LONDON, N.W.1. Museum 8040



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VARALETTES

ASPIRIN

VARASAL

PRIVATE FORMULÆ MADE  
TO YOUR REQUIREMENTSEFFERVESCENTS  
SALINES  
LITHOPYRINE &c.

ALFRED BISHOP LTD

48 Spelman St., London, E. 1.



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*Just to remind you*

that it is inadvisable to place orders for next season's Malt Extract and Cod Liver Oil until you have had samples and prices of

# Butterscotch

BRAND

## Malt Extract & Cod Liver Oil

- In bulk or packed. Wholesale, Retail, Home and Export.
- A full range of attractive "own Name" Labels is available.
- Liberal display material and price tickets.
- All worry is avoided when you stock "Butterscotch" brand Malt Extract and Cod Liver Oil.

It has a unique flavour — customers like it — and speedily builds up a valuable trade. We will gladly send you samples and details on request.


The Brand that gives satisfaction made by the firm that gives real service

## C. TOLKIEN & Co. Ltd.

REMOGEN WORKS - SILSDEN - YORKS.

LONDON: 461a CALEDONIAN ROAD, N.7. Phone: North 5047.  
BIRMINGHAM, 11 GOTHIC ARCADE, SNOW HILL, BIRMINGHAM, 4. Phone: Central 1159.





How many times  
do the Propellers  
revolve  
between London  
and Paris?

... less than  $\frac{1}{18}$ th  
the circulation of  
"The Radio Times"!

However good a head you have for figures, this startling fact\* will help you to appreciate more readily the vast power that is working for YOU when goods that you sell are advertised in "The Radio Times".... a simple demonstration of what a circulation of 2,400,000 really means. It is why travellers go out of their way to tell you when their firms are advertising in its pages and why it pays you to dress your windows with one eye upon its advertisements. Support the firms that support you!

\* Readers with a taste for arithmetic can verify this from the following information:—  
Normal engine speed 1900 r.p.m.  
Propeller speed 950 r.p.m. Time from London to Paris  $2\frac{1}{4}$  hours.

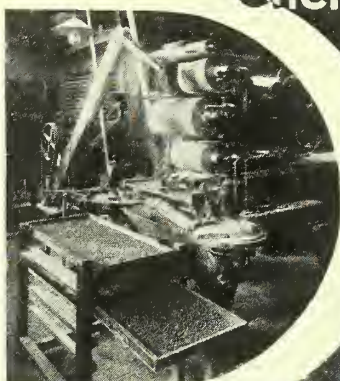
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Imperial Airways Ltd.



# Private Formula work

**Pills and Tablets**  
*manufactured under the control of*  
**Analytical and Qualified Chemists**



ONE OF OUR  
LARGE  
'PILL MAKING'  
MACHINES

Below:  
SPECIAL  
COATING

**Coated  
or  
Uncoated  
Bulk  
or  
Packed**



A  
SECTION  
OF OUR  
BOX MAKING  
AND  
SHOW-  
MATERIAL  
DEPT.

Exceptionally keen prices

**COX** *Estab. 1839*  
 ARTHUR H. COX & Co. LTD.  
 of BRIGHTON

The Public are Calling  
 for

# PETAL DUST

*"Wherein the subtle savour of the Flowers  
 sublimely dwells."*

**THE GREAT FLORAL AIR PURIFIER**

*A Trial will convince you that—*

**PETAL DUST**, when once shown, creates its own demand, and is therefore a valuable adjunct to every "go-ahead" store.

**PETAL DUST**, when displayed prominently upon your counter, will attract prudent customers by the fragrance of its unique odour, which to-day is of such universal admiration.

**Retails in packets at 4d. and 8d. each.**

**Attractive Advertising matter free on request.**

*Obtainable through all the usual Wholesale Houses or  
 from Sole Producers:—*

**The Rosmarine Manufacturing Co.**  
 LONDON, S.E.1.

**Women are buying this  
 SOUPLEX "NYMPH" Ladies'  
 Razor!**



Actual Size

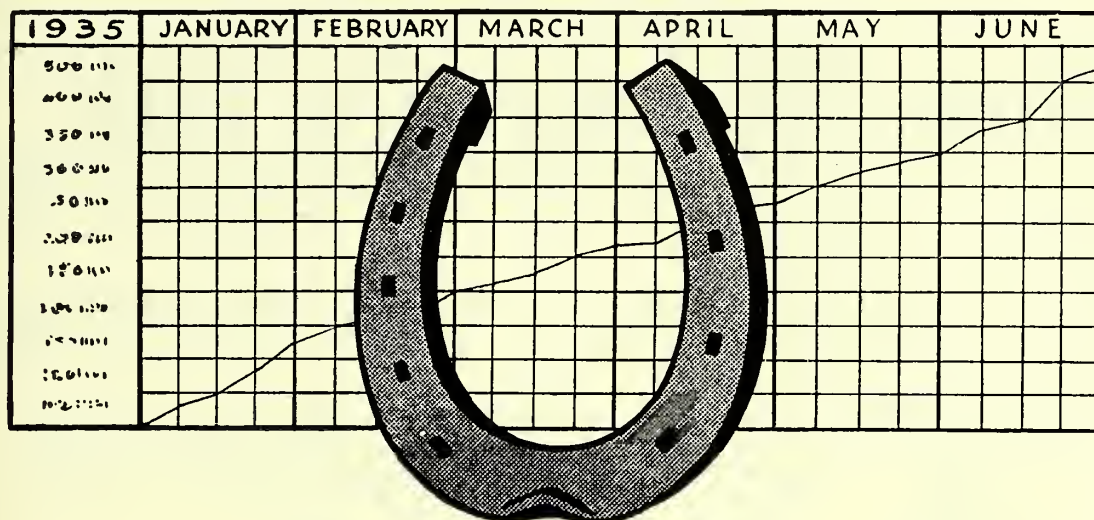
3" x 2"

Ladies seeing this dainty little shaving outfit cannot resist buying. Complete with soap, brush, razor and Souplex Nymph blade in a charming case of mottled bakelite measuring only 3" x 2" it is handy for travelling and quite indispensable to the modern woman's toilet.

Retail price  
 3/6

*Liberal terms*  
**SOUPLEX LTD.**  
 MORECAMBE

*"The Nymph"*  
**COMPLETE  
 SHAVING SET  
 FOR LADIES**



*It isn't Just Luck*  
*that Sells Millions & Millions of Moorlands*  
**it is REPUTATION—**  
**QUALITY-NATION WIDE**  
**ADVERTISING & DISPLAY★**

## **MOORLAND** BRAND **INDIGESTION TABLETS**

★ Your own display is a vital link in the sales chain. It connects with the advertising—it makes the passer-by buy—it keeps profitable purchases always on the move.

No competitive line enjoys such tremendous customer-satisfaction as Moorlands. Its reputation is unrivalled and grows bigger and bigger through constant recommendation. Then there is the strong frontal-attack of vigorous, convincing advertising, which keeps the sales curve of new business upward. Add to these the potency of good display at the point of sale, i.e. the window or the counter—and you have the obvious reasons for the huge success of Moorlands.

W. B. CARTWRIGHT LTD., Rawdon, Leeds

*The Public will have Moorlands*

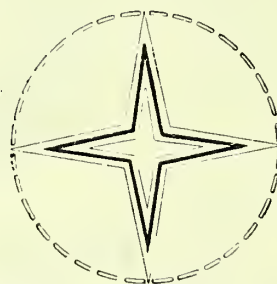


# Thos. Christy & Co. Ltd.

have pleasure in announcing that they have been appointed distributors of



BOTTLED AT THE ROYAL  
RADIUM SPRINGS, PORTUGAL



## Caria

Water  
(AGUA RADIUM)

A natural Radium Spring Water bottled at the springs, contains Radium Salts in solution, retaining a permanent radio-activity. For the treatment of renal and hepatic diseases, elimination of uric acid and other toxins from the blood and tissues. Prophylactic of obesity. Relieves insomnia, revitalises the general system. Aids digestion and thus proves to be of great dietetic value.

---

## THOS. CHRISTY & CO LTD

---

CARIA SPRING WATERS LTD., 19 GROSVENOR PLACE, LONDON, S.W.1



# BIG ADVERTISING CAMPAIGN

*begins shortly for this*

# WINTER WINNER!



**PROFITS**

(to direct buyers)

**14/-**

per dozen large size

**6/-**

per dozen small size

These compact show-  
outers which tell the  
story at a glance fit  
neatly into the fullest  
window or counter  
display. Small box  
4½" x 4"—large 6" x 5"  
in vivid scarlet,  
white and grey.

Last year, during a winter which was unusually mild, Macleans Brand Rheumatic Rub was launched on the national market, and it sold well on its outstanding merits. Now this year Macleans Brand Rheumatic Rub will be backed by consistent advertising in leading national newspapers and periodicals—advertising which will stimulate a continuous demand throughout the season.

This line is well worth featuring in your window displays for it shows a profit of 14/- per dozen on the large size and 6/- per dozen on the small, if you buy direct. Order your stocks now and let the full force of national advertising sell for you.

# MACLEANS

BRAND

# RHEUMATIC-RUB

MACLEANS LIMITED, GREAT WEST ROAD, BRENTFORD

Telephone: Ealing 6616



*To save time wasted  
in Book-keeping—  
send all your orders  
to May, Roberts*

**T**HERE are more pleasant ways of spending one's leisure than in poring over accounts. By ordering all your supplies through May, Roberts, you save hours of weary book-keeping. Simply one account to enter and check and one account to pay. Isn't that delightfully simple? Isn't that a relief from the usual odds and ends of bills from here, there and everywhere? Isn't it a matter of ordinary common sense to send all your orders to—

**MAY, ROBERTS**  
& CO. LTD.

7-13 CLERKENWELL ROAD, LONDON, E.C.1

Branches :

PLYMOUTH  
32-33 Kinterbury St.

LIVERPOOL  
67-73 Duke St.

CARDIFF  
Tredegar House, Hope St.



# THYROIDEUM

(EVANS)

Conforms to the requirements of the British Pharmacopœia both in thyroxine iodine and in water-soluble iodine.

Consistent in colour and density.

Supplied also in Tablets and in granular form for Tablet making.

*Special quotations for quantity*

Prepared at  
EVANS' BIOLOGICAL INSTITUTE

By

**EVANS SONS LESCHER & WEBB L<sup>TD</sup>.**

## Rivista Italiana delle Essenze, dei Profumi e delle Piante officinali

SEVENTEENTH YEAR OF PUBLICATION

---

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---

Director : - - - - Dr. EMMA FENAROLI

Editorial Offices : - VIA S. VINCENZO N.38 MILAN

Telephone : 31 216-C.P.850

Producers of Aromatic Substances for Perfumery—Manufacturers of Articles used in the Perfumery Trade—This is the Periodical in which to Advertise effectively in Italy.

---

**MAKE USE OF ITS ADVANTAGES**

---

SAMPLE COPY AND TARIFF ON REQUEST

## get rich quick?

No wonder the South Sea Bubble burst over England. No wonder there is such a thing as the Lotteries Act. We all prefer to become millionaires overnight rather than acquire our wealth slowly and steadily.

The sober fact remains—a solid foundation to one's business is worth all the glittering get-rich-quick schemes. Take, for example, the Harriet Hubbard Ayer preparations. They are preparations of extreme purity, each with a clear-cut task in the care of the skin. But no miracles are promised to women. No fortunes are prophesied to you who sell them.

In spite of this unusual modesty, the increase in the sales of Harriet Hubbard Ayer preparations is very big. Those who stock them find their turnover grows a little larger every day. Those who use them find that their skin really is responding to this sensible and honest treatment.

And, although personal recommendation is probably our greatest asset, please remember that our advertising acts as a gentle, gracious reminder all the year round.

BY LILLIAN S. DODGE

President of

HARRIET HUBBARD AYER LTD.

Beauty Preparations

130 Regent Street London W1

NEW YORK · PARIS · MONTREAL



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Address.....

Your Sales will increase if you show the Display Container. C.D.

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- Retailing at 1/6 and 1/- each these Compacts are packed in boxes each containing 1 dozen. Priced at 12/- and 8/- respectively these boxes make very handsome non-obstructive Window or Counter displays.

Order NOW from your Wholesaler and link up with greatly increased advertising commencing NEXT WEEK

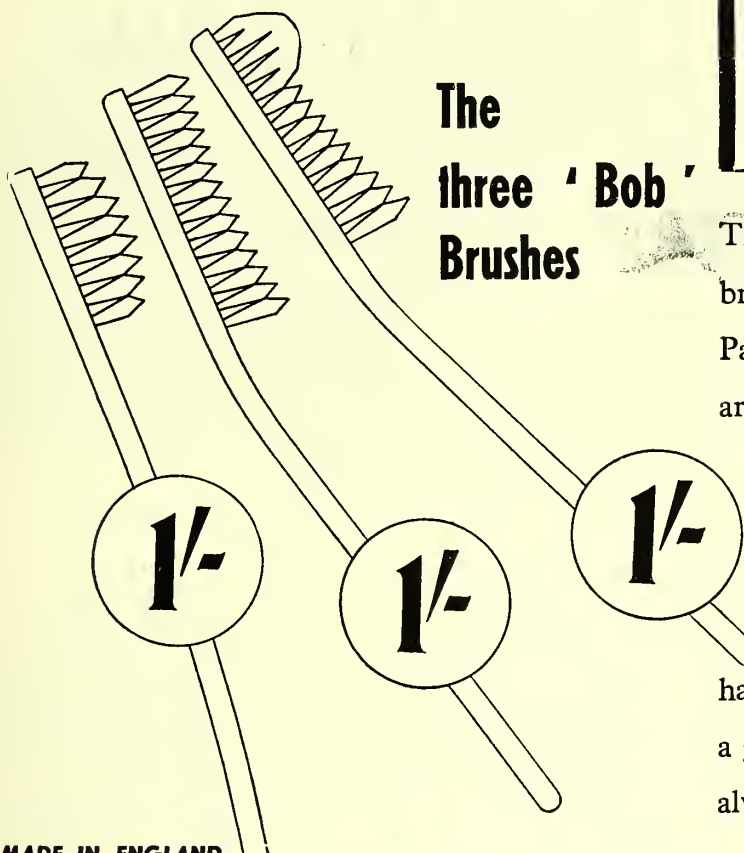


No compact genuine without this label.

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**AZIADÉ Ltd.**  
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# HALEX BRUSHES ARE NATIONALLY ADVERTISED ALL THROUGH THE YEAR



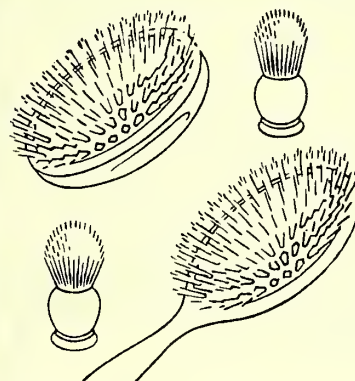
## The three 'Bob' Brushes

MADE IN ENGLAND

# HALEX

Registered Trade Mark

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"THEY STAND UP"**

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KNOW THAT  
**BRYLCREEM**  
IS THE PERFECT  
HAIR DRESSING

...HAVE YOU REALISED  
THAT  
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HAIR TONIC



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Brylcreem is supreme as a Hairdressing Fixative. Brylcreem is also an excellent Hair Tonic and Hair Restorer as our testimonials prove.

**GET YOUR SHARE of the SALES FOR BOTH REASONS**

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*The Perfect Hair Dressing*

BRYLCREEM IS A P.A.T.A. LINE AND YOUR PROFITS ARE PROTECTED TO THE UTMOST OF OUR ABILITY  
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*This sensational Campaign will of course include*

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PERFUMES · CREAMS (Day & Night) · LIPSTICKS · FRICTIONS  
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AT YOUR DISPOSAL FOR WINDOW & COUNTER DISPLAYS

NEW SHOW-MATTER

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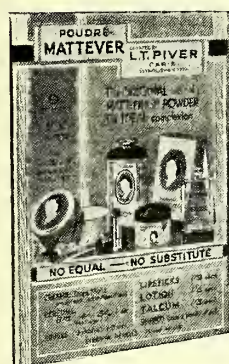
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All free with Order



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10/- Per Dozen (Retail Price 1/3d.) . . .



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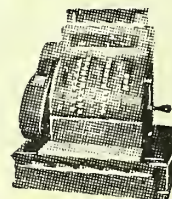
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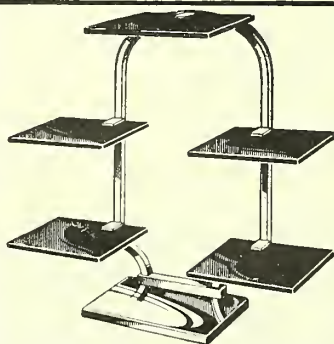
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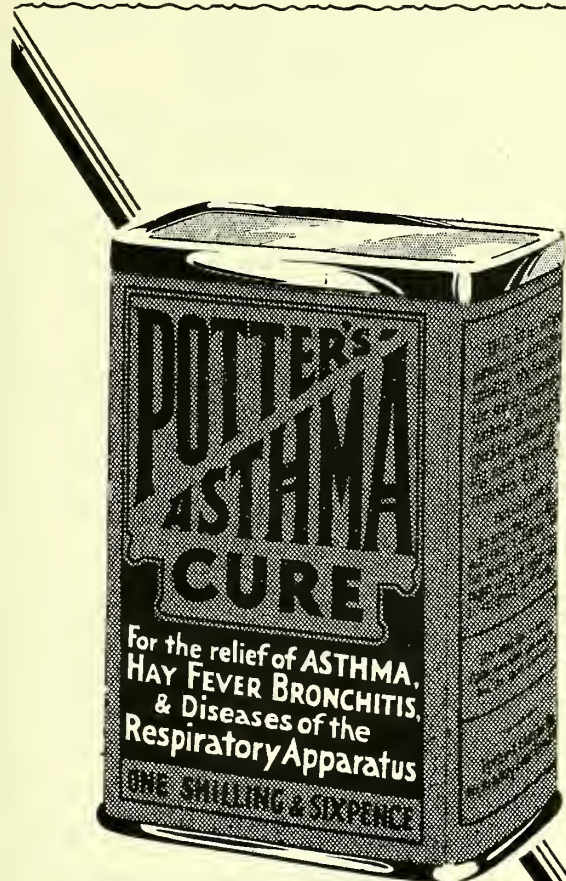
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A suitable Composition Stopper will enhance the selling value of your package. Let us fit your Bottles and quote you.



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is the most recommended of all Beauty Treatments by Beauty Editresses in the Press everywhere. It never fails and therefore can easily enhance your prestige and profit.

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(Trade Mark)

### SNOW"

(Trade Mark)

### CREAM

Glass jars ... 15/- per doz.  
Collapsible tubes ... 5/5 ,, ,,

Glass jars ... 15/- per doz.  
Collapsible tubes, 7/6 and 15/- ,, ,,  
Jars containing 1 lb. ... 105/- ,, ,,

*London Prices to the Trade (Subject)*



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Laxative

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★ "MILK OF MAGNESIA" (REGD.)

★ "MILK OF MAGNESIA" Brand TABLETS

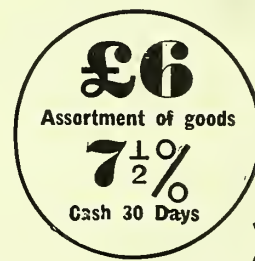
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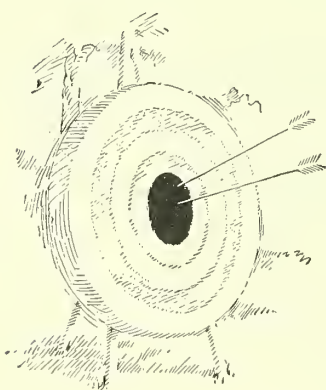
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# THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,  
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The Chemists' and Druggists' Society of Ireland, and of  
other Chemists' Societies in Overseas Dominions*

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## News of the Week

### Key Industries Duty Exemptions

The Board of Trade give notice that they are proceeding to consider the question of renewing for 1936 the exemption orders at present in force. Interested parties are invited to communicate with the Principal Assistant Secretary, Board of Trade, Industries and Manufactures Department, Great George Street, London, S.W.1, not later than October 9, 1935.

### Trade Exhibitions

September is a popular month for exhibitions, and in the following paragraphs are notes on those of interest to the drug trade:

A display of advertising photographs is being held at Ilford Galleries, 101 High Holborn, London, W.C.1. The closing date is October 5.

The Lighting Service Bureau has arranged at 2 Savoy Hill, London, W.C.2, an exhibition of lighting ideas, many of which are adaptable to the needs of those connected with the various branches of the pharmaceutical industry. The manufacturer can see there the latest improvements in factory and office lighting; the retailer, the lighting of mirrors, showcases, signs; economical lighting from laylights, and last but not least, the decoration and furnishing of shops by the new tubular lamps.

An exhibition of photography in commerce and industry was opened on September 3 at Royal Institute, Princes Galleries, Piccadilly, London, W.1. This is organised by the Professional Photographers' Association. As is to be expected the general technical standard is high. There are over 600 photographs, including photo-posters and direct colour work: advertising fashion, engineering, architectural and illustrative, and they may be broadly classified as those for advertising purposes and examples of other industrial uses of photography. The exhibition remains open until September 14.

The thirty-ninth International Exhibition and Market of the Bakers, Confectioners and Allied Traders is being held at the Royal Agricultural Hall, London, N., from September 7 to 13. The following are among the stands of interest to the drug trade: THE ENGLISH GRAINS CO., LTD. (Yestamin and malt flours); BRITISH DIAMALT CO. (H. A. & D. Taylor, Ltd.), malt extracts; BLACKWELL, HAYES & CO., LTD. (essences); FREDK. BOEHM, LTD. (glutamol lecithin emulsion); W. GARDNER & SONS (GLOUCESTER), LTD. (machinery); SAMUEL JONES & CO., LTD. (packing requisites); J. C. KING, LTD. (display stands); NATIONAL CASH REGISTER CO., LTD. (cash registers); VENESTA, LTD. (plywood cases).

### Inquests

At Brighton, on September 11, a verdict of "Suicide while of unsound mind from an overdose of veronal" was recorded at an inquiry into the circumstances attending the death of Sybil Mary Wilson.

At Bolton, on September 10, an inquest was held on the body of Fanny E. Wray, and a verdict was returned that death was due to zinc chloride poisoning, there being no evidence to show how the poison was administered.

An inquiry relating to the death of Margaret E. Finch was held at Windsor on September 6. Dr. Roche Lynch, the Home Office analyst, said that she died from dial poisoning. It was possible, he said, for anyone known to a chemist to obtain dial tablets, but a proposal that the drug should be supplied only on production of a prescription signed by a doctor was now under consideration. Various chemists in London, Slough and Eton had stated that they had sold Miss Finch dial tablets on production of a prescription. In returning a verdict of "suicide," the coroner said he was glad to hear that there was a proposal to make it more difficult for people to obtain this drug.



### Birkenhead

The opening meeting of the Birkenhead and Wirral Pharmacists' Association is to take the form of a cine night on October 2, when Mr. H. Hirst is to present an evening's entertainment.

After a short existence the Birkenhead Public Medical Service Scheme has come to an abrupt end. Commenced in May last, the service had eventually between 300 and 400 members enrolled. When the scheme came into operation it was discovered that the major portion of the subscribers bringing prescriptions into the chemists' shops could aptly be described as "chronics." In such circumstances the scheme was doomed to failure unless a proportionate increase in other subscribers could be found. Arrangements have been made to pay the amount due in respect of capitation fees to chemists for the final quarter.

### Birmingham

The annual general meetings of the Birmingham Pharmaceutical Association, the Birmingham Branch of the National Pharmaceutical Union and the Birmingham and District Branch of the Pharmaceutical Society were held on September 10. An election was held in respect of the Pharmaceutical Society's Branch Committee, but no change in the *personnel* resulted. The meeting expressed dissatisfaction with the present rules, which did not secure sufficient new members for the committee, and a proposal for redrafting the rules was carried unanimously. The chairman declared the constitution of the council of the Association for 1935-36 as follows:—Mr. J. W. Atkinson, Captain E. C. Bennison, Mr. J. W. Bland, Mr. S. C. Blore, Dr. E. G. Bryant, Mr. H. Buckingham, Mr. H. J. Callow, Mr. J. W. Cox, Mr. T. H. Foden, Mr. W. J. Izon, Mr. E. W. Mann, Mr. H. H. Marshall, Alderman J. Poole, Mr. H. Rigg, Mr. D. J. Rushton, Mr. B. W. Shaw, Mr. F. Smith, Mr. Maurice Smith, Mr. A. E. Southerton, Mr. C. V. Thompson.

The report of Birmingham City analyst for the second quarter of 1935 records that 1,362 samples were taken during the period covered. Among them were:—Ground ginger (7), gravy browning (5), lemonade crystals (1), tea (19), various vinegars (27), borax (14), boric acid ointment (14), castor oil (6), citric acid (7), eucalyptus oil (6), liquid paraffin (4), health salts (3), Seidlitz powders (4), sulphur tablets (6), aspirin tablets (13), and one of a proprietary medicine. The label on a packet of tea bore the statements that it was "Non tannic," "Free from stalk, which contained crude tannin," and "Digestive because non tannic." The amount of tannin found was 16 per cent., a rather higher figure than the average. It appears that the words "Non tannic" have already been withdrawn in the latest type of package by the firm. A sample of table vinegar consisted of dilute acetic acid coloured with caramel. The packers agreed to label the bottle "Non-Brewed." Twelve samples of drugs supplied under contract to the dispensaries under the control of the Committee were all of the required standard.

### Liverpool

The holiday months have been severely felt by chemists in the Liverpool area, particularly in the central part of the city.

At Liverpool Police Court, recently, Rame S. R. Chundra, an Indian seaman, was bound over for a year on two charges of being in unauthorised possession of Indian hemp.

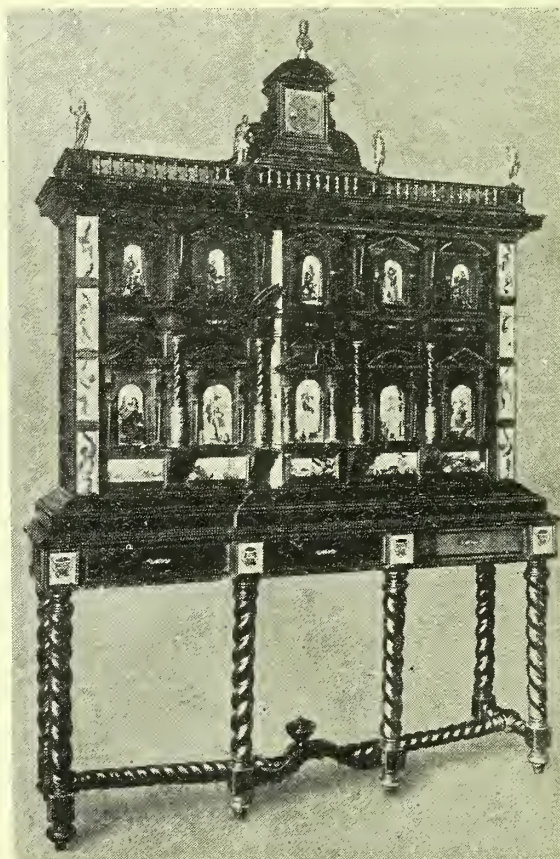
The annual smoking concert of the Liverpool Chemists' Association in aid of the Pharmaceutical Society's Benevolent Fund is to take place on November 6, and the annual dinner has been provisionally fixed for February 26, 1936.

### London

The chemistry department of Hackney Technical Institute, Dalston Lane, E.8, are to inaugurate the new session by a public lecture on "Colloids in Industry" by Professor H. Freundlich on September 25. During the coming months the Institute is conducting evening courses of instruction on "Modern Cosmetic Manufacture" and "Essential Oils and Perfumes." Further particulars can be obtained on application to the Principal.

On August 29, a party of West Ham chemists paid a visit to the Royal Primrose Soap Works of John Knight & Co., Ltd. The party was conducted through the various oil and fat departments, and the many processes of soap making

were explained en route. The visitors were entertained to tea, during which Mr. Arthur Webber, chairman of the directors, expressed the pleasure of the company to welcome the chemists to their works. In the unavoidable absence of the president, Mr. W. J. Beardsley, the secretary, Mr. J. Reed, proposed a vote of thanks for an enjoyable visit.



Poison Cabinet of Lucrezia Borgia

THE POISON CABINET OF LUCREZIA BORGIA AND ITS KEY, OF WHICH ILLUSTRATIONS ARE GIVEN ABOVE, ARE FOR SALE AT SELFRIDGE & CO., LTD., LONDON, W. INSIDE ARE SAID TO BE SIGNS DRAWN WITH THE POINT OF A DAGGER, AND WHOEVER CAN DECIPHER THESE SIGNS, IS SUPPOSED TO KNOW ALL ABOUT THE BORGIA'S "HUNDREDFOLD DEATH."

### Miscellaneous

OLDHAM TOWN COUNCIL has decided to appoint an inspector under the Pharmacy and Poisons Act, 1933.

IN THE COURTS.—At Southampton Borough Police Court, on September 11, Charles Upson, chemist and druggist, Gosport, was fined £3 for selling vegetable laxative tablets without labelling them poison.

CARNIVAL AWARDS.—At a carnival held at Towyn, Denbighshire, recently, the first prize in the class for tradesmen's turn-outs was awarded to Mr. D. H. M. Jones, chemist and druggist.—In a window-dressing competition held at Newport, Isle of Wight, recently, the prize winners included Mr. P. H. Millidge, Ph.C., and Boots, Ltd.



**BURGLARIES.**—The premises of Godkins, Ltd., chemists, Tunbridge Wells, were broken into on September 7 and a considerable quantity of photographic apparatus stolen.—The Jersey branch of Boots, Ltd., was entered by burglars recently who removed a quantity of small articles.

**ILFORD CHEMISTS' FOOTBALL CLUB.**—Trial matches for the Ilford and District Chemists' Football Club will take place at Allen & Hanburys' sports ground, Whalebone Lane, Chadwell Heath, Ilford, on September 19 and 26 at 3 p.m. Membership of the club is open to all in any way connected with pharmacy. There are two elevens, and entry has been made for two competitions. Intending members should communicate with the secretary, A. E. Leach, 18 Saxon Road, Ilford, Essex.

**GOLF.**—The fifth open autumn meeting of the West Glamorgan Pharmacists' Golf Club was held at the Clyne Golf Links, Swansea, on September 5. Mr. T. J. Morgan, Pontardawe, was the winner of the Evans Sons Lescher & Webb silver challenge cup with a score of 85-11=74, the bogey for the course being 74. Mr. G. A. Howell, Porthcawl, was runner-up with 94-18=76, and was presented with a prize of a dozen golf balls kindly given by the president, Mr. W. J. Davies. Mr. Hughes, representing Evans Sons Lescher & Webb, Ltd., presented the cup, and Mrs. Davies, the president's wife, the golf balls. The winner of the open competition run in conjunction with the above was G. A. Tandy, 84-12=72, the runner-up being Mr. T. J. Morgan, with score as above. Other results were as follows:—

J. Morys Williams (Clyne)	..	..	95-21=74
D. O. Richards	..	..	86-10=76
A. E. Sweet (Clyne)	..	..	88-12=76
Ivor B. Jones (Skewen)	..	..	93-16=77
L. Vanstone (Clyne)	..	..	93-15=78
G. M. Thomas (Pontardawe)	..	..	97-18=79
C. A. Kent (Pennard)	..	..	97-15=82
C. R. Dickens	..	..	98-16=82
Allan Williams (Llandilo)	..	..	102-20=82
Hyatt Jenkins (Treherbert)	..	..	98-12=86
L. Wills	..	..	95-6=89
Major J. Hughes (Llandilo)	..	..	122-20=102

## Scottish Notes

### Brevities

A Christmas goods display will be held at the Grand Hotel, Charing Cross, Glasgow, from September 23 to 27, inclusive by Hirst, Brook & Hirst, Ltd., Leeds.

A lady who recently visited a Scottish specialist and paid a two-guinea fee was astonished to receive a proprietary yeast tablet, on having her prescription dispensed.

Mr. James G. Murray, chemist and druggist, has taken over the business formerly carried on at 36 Midstocket Road, Aberdeen, by Mr. Patrick Burr, chemist and druggist, who has retired.

Mr. James H. Mitchell, manufacturing chemists' agent, 60 Shieldhall Road, Glasgow, S.W.1, has executed a trust deed in favour of Mr. George A. Dempster, accountant, 188 St. Vincent Street, Glasgow.

Mr. George McArthur, Dunkeld Road, Perth, an assistant in the employ of Mr. Alexander Kaye, chemist and druggist, ro County Place, Perth, was killed on September 6 while riding pillion on a motor-cycle driven by his brother.

"Vitamins and Hormones" was the subject of an address given to members of Arbroath Rotary Club recently by Dr. James Walker, an Arbroath man engaged in research at Oxford University. Mr. James Jack, Ph.C., proposed a vote of thanks.

Spurious silver coins, particularly half-crowns, are reported to be again in circulation in Scotland. They are softer and lighter in weight than the genuine. Forged American dollar bills are also circulating, and several have been changed at banks in Glasgow and Stirling districts. Notices have been issued not to accept 100-dollar bills of the large Franklyn printing unless from accredited customers.

Scottish Rexallites will be addressed at the Grand Hotel, Charing Cross, Glasgow, on September 18 by Mr. M. L. Daniels, Nottingham. Mr. Daniels will speak on "Some Impressions of a recent visit to Canada and the U.S.A." High tea will be served at 7.45 prompt. In addition, the latest products of the

United Drug Co. will be on show, under the charge of Mr. E. H. Johnson, chemist and druggist, Scottish Rexall representative.

The Edinburgh Chemists' Golf Club played their eighth competition of the season over Murrayfield course on September 4. Result: 1, (a tie) W. E. Herd (4), W. J. Rosie (10), J. B. Crawford (21), 75; 4, (a tie) E. Brindle (30) and J. A. Darroch (19), 77. Winner of Pinkerton-Gibson trophy for the aggregate of two scores: W. E. Herd, 155 (80 and 75). The club will hold a whist drive and dance in the Plaza, Morningside, on October 30. Tickets may be had from members of committee or from the secretary, price 5s. 6d. each.

## Irish Notes

### Ulster Retail Drug Trade Association

The monthly meeting of the Executive Committee was held in the Grand Central Hotel, Belfast, on September 3. Mr. James Dundee (president) occupied the chair, and there were also present Messrs. C. Abernethy, J. Adams, A. E. A. Davis, W. Esler, S. J. Hudson, R. Linehan, Jas. McDowell, John McDowell, R. A. McEwan, E. A. Richey, W. J. Rankin, P. R. W. Shinner, J. Taggart, J. Tate and A. Steede, and the secretary. An apology for non-attendance was received from Mr. Wm. Martin (immediate past-president). A resolution of sympathy was passed to Mr. J. M. Glass, Bangor, whose infant child was killed in a motor accident. Mr. Abernethy reported cases of alleged price cutting, and Mr. E. A. Richey and the secretary were appointed to investigate and report. Mr. Dundee gave instances of the cutting of prices on prescriptions as coded by him, and it was agreed that a notice be put on the outgoing price alteration list urging members loyally to observe the coded prices on all prescriptions. Mr. McGregor reported that in a preliminary interview with the city solicitor, regarding the reception of a deputation to discuss the suggested Shop Hours Bill, the latter had informed him that a letter setting forth the views of the Committee on the matter would suffice for the present. It was agreed that a letter be sent to the town clerk requesting information as to how the suggested Bill would affect the interests of pharmaceutical chemists and druggists. Further details of the work of the special subcommittee dealing with the restriction of the sale of patent medicines to chemists was submitted. It was agreed to announce in the trade Press that a list of manufacturers who have agreed to confine the sale of their products to chemists was being compiled for issue to the chemists in Northern Ireland, and that any firm or company which had not already been approached about this matter but which desired inclusion in this list should communicate with the secretary. Mr. Shinner intimated that a device, as previously approved, had been registered and was now the sole property of the Association and could only be used by members.

### Irish Drug Association

At the weekly meeting of the Committee of the Irish Drug Association, held on September 9, Mr. T. C. Scott (president) in the chair, an application was received from a well-known English firm of pastille manufacturers requesting that their name be inserted in the approved list of manufacturers recently issued by the Association, and expressing disappointment that it had not already been placed on the List. Since this firm had always confined their products to chemists and druggists, the Committee unanimously decided to add their name to the List. Some other firms, whose trading policy was not at present in conformity with the Association's policy, are to be approached by the Committee and satisfactory agreements reached before the names are approved. It was brought to the notice of the Committee that strenuous efforts were being made by secretaries of the various guilds and co-operative buying societies in Dublin and district to induce individual chemists to break away from loyalty to their Association and to permit their names to be continued on the coming year's guild discount lists. The secretary was directed to issue a special memorandum on the matter to all members, instructing them to refuse to allow their names to be used. In any case where chemists' names are used without authority the Committee decided to institute legal proceedings against the guild concerned. With continued loyalty and solidarity this year the guild evil, it was felt, would be defeated once and for all.



### Brevities

A pharmacy opened at Bow Street, Lisburn, by Lionel, Ltd., is under the managing directorship of Mr. D. L. Moody, Ph.C. Mr. Moody will continue to conduct his pharmacy at 22 Bridge Street, Lisburn.

Mr. John M. Glass, Ph.C., 1 Belfast Road, Bangor, was injured, and his eighteen-months-old child was killed, in a motor accident at the Glen, near Crosshaven, recently. Both were in the back of the car with Mrs. Glass, who escaped unhurt.

Nominations for the annual elections to the Council of the Pharmaceutical Society of Northern Ireland close on September 23 and the result of the elections (if any) will be declared at the annual meeting on October 7. The four pharmacists who retire this year are Mr. Fred Storey (president), Mr. John Maxwell (ex-president), Mr. J. E. Connor, J.P., and Mr. H. F. Moore. None of the druggists' representatives retire this year.

### Belfast

Mr. William Hamilton McBride, Ph.C., has retired from business and the pharmacy at 197-199 Woodstock Road, Belfast, is now closed.

On the occasion of the Tourist Trophy Race on September 7 the leading wholesale drug houses gave their employees a day's holiday.

At Belfast Corporation monthly meeting on September 2 it was reported that the Pharmaceutical Society of Great Britain had written conveying an expression of their appreciation of the facilities afforded in connection with the Society's recent conference.

The Minister of Home Affairs has asked the Belfast Chamber of Trade for its considered opinion on the amendment proposed to the Shops Acts so as to bring the law in Northern Ireland into closer uniformity with that of England. A sub-committee has been appointed consisting of Messrs. W. J.

Hardy, Ph.C., and James Dundee, Ph.C. (president of the Ulster Retail Drug Trade Association).

The latest quarterly report of the public analyst of Belfast states that one sample of iodine ointment tested contained no free iodine and only 0.07 per cent. of potassium iodide (iodine ointment of the British Pharmaceutical Codex contains free iodine and 4 per cent. of potassium iodide). One informal sample of vinegar contained 3.4 per cent. of acetic acid. The latter sample was therefore deficient in acetic acid to the extent of 15 per cent. of the minimum amount which should be present. Samples of camphorated oil, castor oil, cod-liver oil, olive oil, boric ointment, iodine ointment and syrup of figs were found to be genuine.

### Dublin

The sale of poison in Dublin was referred to by the city coroner on September 2, when an inquest was held on the body of Leo Keegan, Clontarf, who was found dead in Fairview Park. The jury's verdict was "Suicide during temporary insanity." Following the verdict the coroner said: "This is another of these cases of lysol poisoning which are becoming common in the city, and so long as these dangerous poisons can have easily these tragedies will go on. There is nothing to prevent anybody buying lysol, which is a deadly poison. It is our duty to draw attention to this so that the authorities might bring in preventive measures."

An interesting lecture on "Faults in Negatives" was given by Mr. Lyall Smith, M.P.S.I., to the Dublin Branch of the Photographic Dealers' Association on September 4, Mr. John Smith, M.P.S.I. (president of the Branch), in the chair. Mr. Smith dealt with various faults caused by the wrong loading of films in cameras, and then by means of a series of well-chosen negatives projected on a screen demonstrated the faults arising from wrong exposure and during development, fixing and drying. At the close of the lecture Mr. P. A. Brady, M.P.S.I., paid tribute to its high educational value, which, he said, indicated the need for having a school of photography for members of the P.D.A. during the winter months.

## Topical Reflections

By Xrayser

### The Grocers' "Grouse."

to which you have drawn attention (on p. 303), does not impress me as one for which the Federation of Grocers' Associations can produce any justification whatever; I regard it as a bit of propaganda which the officials have to engage in to justify their existence. My own experience is that grocers do not now sell disinfectants of the lysol solution type, i.e. under 3 per cent. cresols, to any great extent, and the fact that under the new Act they will not be allowed to sell lysol will not deprive them of any business in this poison because they have never had it. I suggest that the members of the Grocers' Associations belonging to the Federation should read Section 33 (I) of the Report of the Poisons Board which deals particularly and tersely with the question of any relaxation of the restrictions in force at the present time upon the sale of lysol. The report goes on to state: "It may be assumed that the greater the number of channels through which it is available to the public, the more the houses in which it will be found, and consequently the more readily accessible it will be to potential suicides." As you imply, the psychology of the buyer is such that he or she will be much less impressed with the dangerous nature of an article which is purchased in a grocer's shop as one of a number of food articles than by the purchase of the same article from a pharmacist; the mere fact that the buyer has to enter a pharmacy impresses the transaction on his mind to an extent that is not possible where he buys from any other trader. The grocers, as a body, have done very well, if the List and Rules stand. The gain of "Phenols—containing less than 60 per cent. weight in weight of phenols" is a big one and should satisfy them. I believe it does; and that the grouse regarding lysol is "eye-wash."

### The Proposed Acquisition

of another well-known proprietary house by "The Beecham Proprietary Companies" (p. 305) should provide a good deal of material for thought by pharmacists. How do such combines affect the average chemist in business? Looking at all aspects of these movements I cannot see that on the distributive side they are likely to affect him very much. Whether the proprietaries he sells are produced by a firm standing by itself or combined with others, he should not suffer, provided of course his profit margin is not cut. He may even gain, if, as is sometimes the case, he is enabled to buy several proprietaries controlled by one company at a special discount, provided a certain value of assorted articles be purchased. It is, however, becoming more difficult for a pharmacist to launch his own proprietary on the market unless he is prepared to spend a huge sum of money in advertising to compete against publicity of such companies as the above, who, we are told, spend round about £1,000,000 yearly.

### This Note

is a plea for simplicity in describing synthetic drugs and chemicals (p. 306) and is inspired by practical considerations rather than the desire to name accurately any article. Incidentally, I make an appeal also to those proprietary and other houses who issue descriptive literature about their goods to the medical profession to use more simple language in describing both the products and their uses. The medical men do not want it, many of them do not understand it; the use of shorter and better-known words would mean less expense in setting up the type and less time wasted in reading and trying to understand the language used; everybody would gain. It may be more scientific to describe the opening in the face as an "oral cavity," but after all the word "mouth" answers just as well.



## New Companies and Company News

P.C. means Private Company and R.O. Registered Office

**PARRSWOOD PHARMACY, LTD. (P.C.).**—Capital, £300. Objects: To carry on the business of chemists, druggists, etc. R.O.: 810 Kingsway, East Didsbury, Manchester.

**SEAJOY CO., LTD. (P.C.).**—Capital, £1,000. Objects: To acquire the formula and the use of the registered trade mark No. 406,871, Class 3, known as "Seajoy." R.O.: 114 Upper Richmond Road, S.W.15.

**BLANCHE LITTLER (BEAUTY), LTD. (P.C.).**—Capital, £7,500. Objects: To carry on the business of manufacturers of and dealers in powders, dyes, soaps, salves, balms, etc. Solicitors: Warren Murton & Co., 45 Bloomsbury Square, W.C.1.

**NON-KRODE DEPOSITS, LTD. (P.C.).**—Capital £200. Objects: To acquire and exploit a process of rust proofing and metal deposition known as the Non-Krode Process, and to carry on the business of platers, oxidizers, etc. R.O.: 71 Temple Row, Birmingham.

**MACLEANS, LTD. (P.C.).**—Capital £100. Objects: To carry on the business of manufacturers and distributors of and dealers in toilet specialities and druggists' sundries, etc. The first directors are not named. Solicitors: Clifford-Turner & Co., 11 Old Jewry, E.C.

**OPTICAL & PROFESSIONAL SUPPLIERS, LTD. (P.C.).**—Capital £200. Objects: To carry on the business of manufacturers of and dealers in dental, medical, surgical and optical instruments and appliances, etc. Solicitors: Sutton, Ommanney & Oliver, 7 Great Winchester Street, London, E.C.2.

**BERGER (PARIS) PRODUCTS, LTD. (P.C.).**—Capital, £2,000. Objects: To carry on the business of manufacturers, importers and exporters of and dealers in perfumed or other disinfectants, germicides, antiseptic liquids and compounds, bath salts and other hygienic preparations, etc., and to adopt an agreement with Sydney Colton and Sibyl M. G. Lloyd. R.O.: 41 King's Road, Brighton.

**EPHETA CHEMICAL CO., LTD. (P.C.).**—Capital, £5,000. Objects: To acquire as a going concern the business of manufacturers and dealers in certain chemical products known as Epheta and Anfit carried on by Anglo-Swiss Industries, Ltd., at Africa House, Kingsway, W.C.2, and to carry on the business of manufacturers of and dealers in boiler cleaners, scale and incrustation removers, chemicals, etc.

**NATIONAL DRUG INDUSTRIES, LTD.**—The following circular letter, dated September 9, signed by the secretary of the company, has been forwarded to creditors:—

"I am directed to inform you that at a conference of the directors, with certain of our larger creditors last Friday, an unofficial committee was appointed, with power to co-opt others as may be found desirable: to keep in direct and close touch with the board in connection with the directors' proposals for the introduction of additional working capital and the reorganisation of the company's finances. These proposals are being prepared for submission to such committee on Friday next, the 13th instant, after which a full report will be sent to the creditors at the earliest possible moment. Meanwhile, in order to preserve the assets of the company and to enable its business to be carried on, the board decided and, after consultation with and the concurrence of such committee, have requested the bank under its debenture to appoint a receiver and manager. The bank has accordingly appointed Mr. P. W. Straus, F.C.A., 3 Great Winchester Street, E.C.2, as from the 9th instant. The board are of opinion that their proposals will enable the company's business to be put on a sound financial basis, providing the creditors allow a reasonable time for the reorganisation to be carried through. It is, however, essential that the whole of the creditors should act together and should adopt such recommendations as the unofficial committee of creditors may approve to facilitate such reorganisation and so obviate liquidation."

**IMPERIAL CHEMICAL INDUSTRIES, LTD.**—Interim dividend of 2½ per cent. on the ordinary shares (unchanged), payable (less tax at 4s. 2d. in the pound) on November 1. Pending the decision of the High Court on the scheme for the amalgamation of the ordinary and deferred shares it is not possible to give effect to the resolutions passed by shareholders on May 1 last. The present interim dividend is, therefore, confined to the existing ordinary shares.

### Compulsory Liquidation

**Morgan Davis & Sons, Ltd.,** 64-68 Pitfield Street, N., and elsewhere, manufacturing chemists. The statutory first meetings of creditors and shareholders under the compulsory liquidation of this company were held, recently, at the Board of Trade Offices, Carey Street, W.C., before Mr. H. P. Naunton, Assistant Official Receiver. A statement of affairs was submitted showing unsecured debts, £6,670; preferential claims, £176; debenture loan, £1,400; assets, £4,709; issued capital, £7,000; and a total deficiency of £10,537. The company was formed in April 1917 to acquire an old-established business of manufacturing chemists and manufacturers of surgical appliances carried on by Trevor Chinnock Davis, 21 Borough High Street, S.E., and 278 Bishopsgate, E.C., under the style of John Morgan Davis & Sons. The purchase consideration of £7,000 was satisfied in cash £2 and shares £6,998. The company also acquired leases and shops at 23 Marchmont Street, Bloomsbury, 67B King's Road, Chelsea, 8 Farringdon Street, E.C., 4 Crawford Street, W., and 97 Borough High Street. A fire occurred at the Bishopsgate premises in November 1931. Mr. E. G. F. Cartwright was appointed receiver and manager, and he has carried on the business at a small profit. The failure was attributed to loss through the fire, the stock being under-insured, and to other causes. A resolution was passed for Mr. A. Granville White, C.A., to act as liquidator with a committee of inspection.

### Voluntary Liquidation

**Sawdon Pritchett & Co., Ltd.,** 23 Middle Street, Bartholomew Close, E.C.1, designers of perfumery novelties, etc. The statutory meeting of creditors was held recently at the offices of Messrs. Duncan Allwork & Co., Ltd., Coleman Street, E.C.2, when the chair was occupied by Mr. Sawdon Pritchett, a director of the company. It was stated that the shareholders had met and passed a resolution nominating Mr. F. C. Allwork as liquidator of the company. A statement of affairs was submitted showing liabilities of £4,542 18s. 5d., of which £729 5s. 1d. was due to the trade; there were cash creditors for £3,075 1s. 9d.; the bank's claim amounted to £501 10s. 8d.; income tax amounted to £26 16s. 6d.; and salary due totalled £73 19s. 2d. There was also a partly secured creditor for £314 1s., holding security valued at £177 15s. 9d., leaving £136 5s. 3d. to rank for dividend. The assets consisted of stock, estimated to realise £550, plant and machinery £150, and book debts, estimated to produce £20 1s. 5d., making total assets of £720 1s. 5d., from which had to be deducted preferential claims of £109 13s. 4d., leaving net assets of £610 8s. 1d., or a deficiency of £3,932 10s. 4d. It was reported that the business was commenced about twenty-seven years ago, and was converted into a limited company in 1914. The objects of the company were to design and produce artistic wares, fabrics, and perfumery novelties. No trading figures were available and no deficiency account was submitted. It appeared that the company had been hampered by lack of capital, and efforts to obtain advances had been unsuccessful. The matter was discussed, and it was resolved to confirm the voluntary liquidation of the company with Mr. Allwork, C.A., as liquidator.

## Gazette

### Bankruptcy Acts

#### RECEIVING ORDERS AND ADJUDICATIONS

**BALDWIN, C. R.,** 67 Newland Street, Witham, Essex, chemist.  
**BAXTER, R. W. W.,** 299 Hunslet Road, Leeds, chemist and druggist.

**JONES, G. O.,** "Beechwood," Edwardsville, Treharris, Glamorgan, chemist.



# At the BRUSSELS Exhibition, 1935

## Exhibits of the British Chemical Section

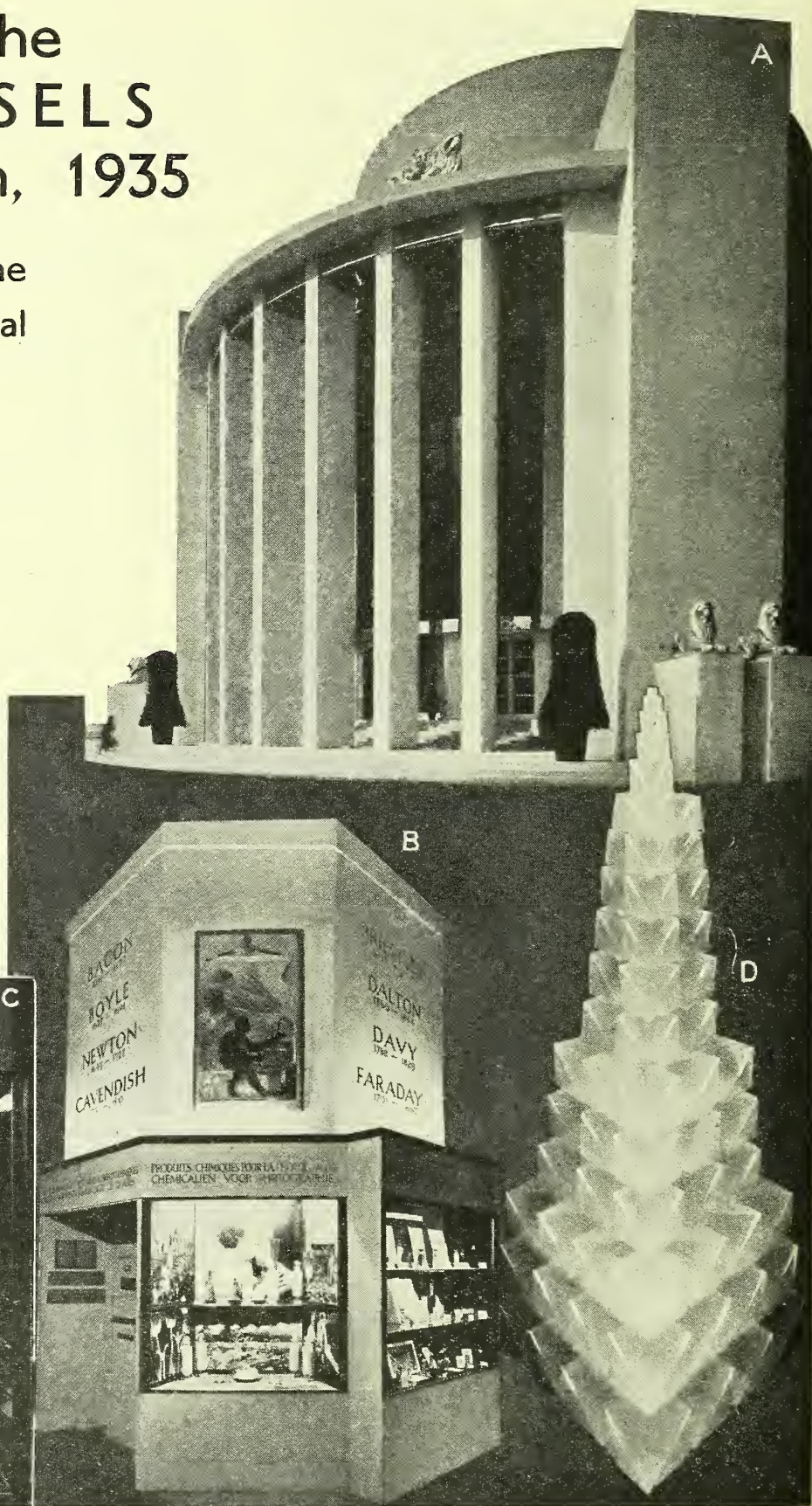
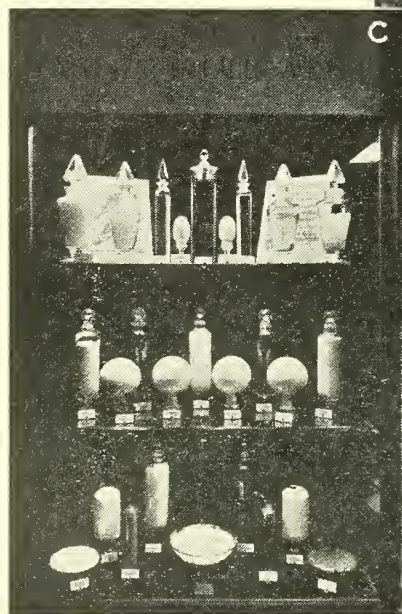
*Arranged by the  
Association of British  
Chemical Manufacturers*

**A.** Exterior of the British Pavilion.

**B.** Inside the Pavilion: a general view of the Fine Chemicals bay.

**C.** A display of Medicinal Chemicals.

**D.** A striking pyramid of alum crystals in the "Aluminium Derivatives" display.





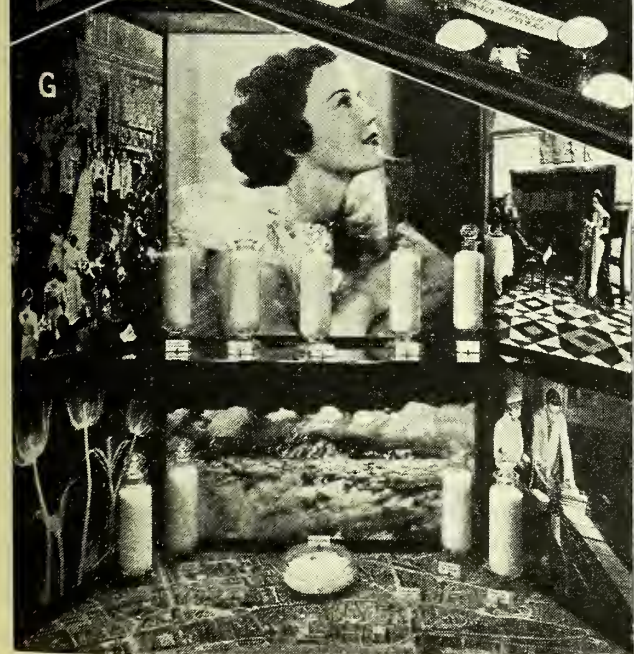
# At the BRUSSELS Exhibition, 1935



E. Showcases in the Fine Chemicals section.



F. Miscellaneous medicinal and veterinary exhibits.



G. Photographic chemicals: a spectacular exhibit, the roof of which is a miniature "night sky" of tiny "stars."



H. Agricultural Chemicals: "Pest-control" propaganda.



I. Biological products: vitamins, hormones and sera.



# Ancient Scottish Weights and Measures

By "Historian"

(Concluded from THE CHEMIST AND DRUGGIST, September 7, p. 299)

In Morayshire, until comparatively recent times, potatoes were sold by the lippy of two sizes, big and little. Fruit was commonly sold by the pint.

In 1617 the custody of the standard firloft was given to Linlithgow, and a description of its manufacture is certainly entertaining reading:—

"The said 'firloft' to be in thickness one inch at least, that the bottom thereof be crossed with iron nailed to the same, and to the rig of the firloft at the edge of the bottom, entering within the leggan; to be passed outwards towards the underside, to be made inwith plain and to be paired outwards towards the under side and just rule right. That the mouth be ringed about with a croose or hoop of iron inwith and outwith having a cross iron bar passing over from the one side to the other, then squared and edged down and a plain side up which shall go rule right with the edge of the firloft, and that there be a prick of iron one inch in roundness with a shoulder under and above and rising upright out of the centre or midst of the bottom of the 'firloft' and passing through the midst of the crossbar; rivitted both under and above and that the cooper cause the ring ringstrake of the said firloft pass from the one end of said iron bar to the other and the same to be burnt and sealed with the mark of four crowns upon both sides of the bottom and with the impression of the letter 'L' upon the upper edge thereof."

Then there was made public notice that "All victuals and stuff shall be measured strake (level) through all parts of the kingdom for all time."

## Penalties for Falsity

Severe penalties were imposed upon persons found using false measures or weights. By Act of Parliament in the reign of James IV (1491): "It is statute and ordained that they that use false weights and measures deceiving the people shall be indicted as 'falsars' and dittag taken thereof by the Justice Clerk." And by an Act of James VI (1607), sheriffs, stewards and magistrates were directed to take trial of weights and measures and the users of false weights and measures were to "tine (lose) their hale (whole) goods and gear which are to be forfeited for the king's use."

For more than two hundred years the keeping of the standard weights and measures of Scotland was committed to the town of Lanark. On January 28, 1617, the Scots Parliament appointed commissioners "to consult and advise together and to determine and appoint the most convenient means for uniformity of weights and measures." After several meetings in Edinburgh, they declared on February 10, 1618, that "The firloft of Linlithgow having been commonly used over the greater part of the kingdom for upwards of three score years shall be the Standard Firloft," that its contents were 21 pints 1 mutchkin of water of the stirling pint jug, and that the water weighed 3 lb. 7 oz. "French Troyes Weight clear running water of the water of Leith." Duplicates of the firloft and other measures were to be kept, two of each in the register within the Castle of Edinburgh and two of each in Dumbarton Castle. The following document was issued from Glasgow on February 22, 1826:—

"The Sheriff Depute of Lanarkshire hereby requests, nominates and appoints the following persons of Science and Skill to examine and ascertain the capacity of the weights and measures in use in Lanarkshire. Dr. Meikleham, Professor of Natural Philosophy University of Glasgow. Dr. Thomson, Professor of Chemistry University of Glasgow. Dr. Ure, Professor of Natural Philosophy Andersons Institution Glasgow. Jas Cleland, Esq., Supt of Public Works City of Glasgow. Jas. Crichton, Esq., Chemical & Philosophical Instrument Maker, Glasgow."

This committee performed their duties with extreme care and thoroughness and eventually issued a lengthy report, from which are selected two examples:—

The unit of weight is the brass weight of 1 lb. made in 1758 of 5,760 gr., and it is ascertained that a cubic inch of distilled water weighed in air by brass weights at 62° Fahr., the barometer at 30 inches is equal to 252.458 of these grains.

5,760 such grains make the Imperial Standard Troy Pound.

Medical Prescriptions are made by this weight under the name of Apothecaries Weights but divided somewhat differently: thus 24 grains = 1 pennyweight, 200 p.w. = 1 oz. 12 oz. = 1 lb.

The report of the Lanarkshire commissioners was duly submitted to an empanelled jury, who in turn promulgated their findings after the commissioners had sworn to the truth of their report; the Glasgow and Lanarkshire standards were then fixed. There is much documentary evidence in existence regarding this. An inventory of the Glasgow measures and weights was taken in 1832. It states, among other things, that the wine gallon measure was of a composition similar to bell metal. It had a crown on it, the letters A.R. and the following inscription "Wine Gallon Anna Regina 1707" in demi-basso relievo. The measure was of the same width top and bottom. The pint measure was of similar metal. It had a lion rampant and a nondescript quadruped on separate shields with the letter "S" at the bottom of one of them in demi-basso relievo. The Chopin,  $\frac{1}{2}$  Chopin, Mutchkin and gill were of copper with the City Coat of Arms and the letters "D.G." (Dean of Guild). There was also an old ale pint of softer composition metal with the letters "D.G." and the date 1696 stamped on it, also the City Coat of Arms with the directions "To touch the pluke is the measure." Presumably pluke meant spot or nodule. The inventory also included a set of Troy weights from 1 lb. to 1 p.w. by Bate of London. These weights were spherical and bore their denomination, a crown, exchequer stamp and date 1824. There was also a small ivory case containing flat grain weights.

Troy weight was the original weight of Scotland, and although abolished by Act of Parliament dated January 6, 1618, when Dutch weight was introduced, it nevertheless continued in use in Glasgow for a very long period. Scottish butter and cheese were sold by Troy. The wine standard gallon of Glasgow was sent from the Exchequer at Westminster after the Union. Drugs, tobacco and snuff were sold in Glasgow by avoirdupois after the introduction of that weight. An old note states that 5 lb. avoirdupois was equal to and taken for a pint of honey. Dutch or Scots Troyes weight, which succeeded Troy, was really introduced through intercourse between the Netherlands and Scotland. It was the same as Paris or Amsterdam Troyes, and was 17 oz. 7 dr. to the lb. The Dutch 1 lb. standard of Glasgow was sent to the burgh by the Conservator of privileges at Dort in the Netherlands.

## Imperial Measures Introduced

Imperial measures were introduced in 1827, and the inspectors in Glasgow were required to have for testing purposes of Troy used in the dispensing or sale of drugs, 1 lb., 6 oz., 3 oz., 2 oz., 1 oz., 10 dwt., 5 dwt., 2 dwt., 1 dwt. 12, 6, 3, 2, and 1 gr.; and for liquids, strong copper duplicates of the imperial models 2, 1 and  $\frac{1}{2}$  gal., quart, pint,  $\frac{1}{2}$  pint, gill, and  $\frac{1}{2}$  gill. This order was dated 1833. It appears that the Lanark stone weight entrusted to that town by the National Commission of 1617 went missing and was discovered in Edinburgh; but the magistrates of the capital, even at the request of the Sheriff, refused to give it up or to let it out of their hands for a time for the purpose of historical research. In the Glasgow inventory of 1832 there is mention of an imperial bushel of brass with ivory cased handles and on the edge two exchequer stamps, two crowns and "G.R. IV 1824." On the side is engraved "City of Glasgow 1824. Bate London maker of Imperial Standards." There were also several others, such as peck, quart, pint and gill; and duplicates of these were made.



# A Nineteenth-Century Medicine Chest

**M**EDICINE chests of the eighteenth and early nineteenth centuries in a good state of preservation are not numerous; and for this reason we received with particular interest a letter from Dr. Edward Kremers, of the University of Wisconsin, U.S.A., informing us of the presence of an old London medicine chest in the Neville Historical Museum, Green Bay. Dr. Kremers has been good enough to interest himself further in the matter by obtaining for us the photographs reproduced on this page and a description of the exhibit.

The chest, 9½ in. high, 9¾ in. wide and 3¾ in. deep, is of mahogany. The fixtures are of brass, the key of iron. The drawer below is locked by the brass peg visible in the reproduction. The lid is lined with red plush. The lithographed label of the bottles bears the name of Blake & Son, Chemists—Established Anno Domini 1800—47 Piccadilly, London. Above the firm's name is placed the Royal coat of arms with "Honi soit qui mal y pense." The label was engraved by R. & E. Williamson, Moore Place, New Bethlem. One of the two largest bottles contains in handwriting the following: "Sulphate of Quinine. Dose for an adult 2 or 3 grains twice or three times a day." The other of the two largest bottles has a printed label "Carbonate of Potash" pasted over the shoulder. The label differs somewhat from the other, reading: "Blake and Son, Chemists and Druggists, To His Majesty, Piccadilly, Corner of Albany, London. Prescriptions and Family Recipes carefully Prepared." The Royal coat of arms also appears on this and most of the other labels. Both of the largest bottles are empty.

For the next size of containers there are six compartments, but only five bottles remain. These have a second style of label. Printed labels indicating the contents are pasted on the bottles but in different positions, as may be seen from the photograph. The substances are:—\*Citric Acid, Sal Volatile, \*Astringent Powder, \*Ipecacuanha Powder, Turkey Rhubarb.

The lower drawer contains six compartments: a large one in the middle may originally have contained a set of weights and hand scales but now contains a small ointment jar. The two compartments to the left accommodate two small bottles, one containing \*Calomel, and the other \*Tartar Emetic. The

three compartments to the right accommodate the smallest size of bottles, two of which are empty and without label. The



*Early nineteenth-century medicine chest*

third one is labelled \*James's Powders. (The bottles still containing drugs are indicated by an asterisk.)

Dr. Kremers informs us that this medicine chest was used by Dr. G. W. Lamb of Green Bay in and before 1860.



*Glass-stoppered bottles and jars from the above medicine chest*



# Emulsifiers for Toilet Creams

**P**ERHAPS the most common emulsifier on the market apart from beeswax is Lanette Wax S.X. This is the trade name for a mixture of primary n-hexadecyl and octadecyl alcohols, better known under the names of palmityl and stearyl alcohols respectively. It melts at about 60° C. and has a specific gravity, when melted, of 0.81. Besides these two alcohols, there is also present in the S.X. wax an emulsifier, neutral in reaction, capable of producing, with water alone, emulsions which on cooling consist of a pasty, gelatinous mass. For the manufacture of creams such as cold creams, the addition of oils and soap was found to give very satisfactory results. The following formula gives a really cheap and satisfactory cold cream provided the melted wax and oil are added to the water at a temperature of 70° C. The formula is:—

Lanette Wax S.X. ... ..	10 gm.
White mineral oil, almond oil ... ..	130 gm.
Hard soap in flakes ... ..	6 gm.
Distilled water ... ..	27 c.c.
Nipagin ... ..	0.2%

The soap should be dissolved in the water and the fats added as above. A beautiful finish is obtained if the cream is filled into the final container at a temperature of 25° C. Stirring must be continued from the mixing of the water and oils, up to this temperature. If stirring be continued till the cream is cold, a matt finish is obtained and the cream has a certain "grain" due to contained air.

## "Non-greasy" Creams

A rather less common emulsifier is called Cirolanum. This is made in two varieties, designated "416" and "431." The 416 variety is used for thinner creams of the brilliantine cream type and the 431 for the stiffer creams where a so-called "non-greasy" final product is desired. The addition of oils and caustic soda is necessary to produce a satisfactory cream, and here again the Cirolanum and oils are added to the soda dissolved in the water, with constant stirring, at a temperature of 60°-70° C. A fluid brilliantine cream type emulsion may be prepared as follows, the viscosity of the final product being varied by the percentage of water present:—

Cirolanum 416 ... ..	6 gm.
Half white mineral oil ... ..	45 gm.
Sodium hydroxide ... ..	0.25 gm.
Distilled water ... ..	200-300 gm.

This cream should not be filled into the final containers until stiffening has just commenced. It is of good colour and very stable.

## Vanishing Creams

Commercial triethanolamine—a mixture of triethanolamine with approximately 7 per cent. mono- and 18 per cent. diethanolamine—is a somewhat commoner emulsifying agent. It is a viscous liquid, completely soluble in water. Vanishing creams prepared with this substance, stearic acid and water, have a beautiful sheen, but are usually more expensive to produce than the creams made with ammonia or the caustic alkalis. Usually more stearic acid has to be used in proportion to water present when triethanolamine is used. Like ammonia, it forms soaps with oleic and stearic acids, and these are of value in various industries, although they suffer from the defect of turning brown in contact with air. In order to produce a satisfactory emulsion it is obviously necessary to have some free acid in the formula, otherwise the base is useless. Combinations of triethanolamine oleate and cirolanum are stated to give satisfactory emulsions, but here again there is a tendency for the product to darken somewhat. American manufacturers recommend the following formula for vanishing cream, which, although somewhat expensive, gives a satisfactory product:—

Stearic acid ... ..	50 gm.
Anhydrous lanolin ... ..	9 gm.
Triethanolamine ... ..	2.5 gm.
Water ... ..	120 gm.

The acid and lanolin are melted together and added to a boiling solution of the base and the water. Stirring is con-

tinued until a heavy cream is obtained and then this is stirred occasionally till cold. A satisfactory cold cream can only be made by the addition of beeswax. If oil or fat be added without the addition of this wax, the amount absorbed and held is limited and the final product is not, in the writer's opinion, greasy enough. Hence the use of triethanolamine for creams of the greasy type is very limited.

## A "Matt" Finish

Tegin, a somewhat more expensive emulsifier now on the market, is of German origin. It produces entirely satisfactory creams with the greatest ease. Tegin forms "oil-in-water" emulsions, so if a very greasy cream is required, a related product, Protegin, giving "water-in-oil" emulsions, should be used. The latter, however, requires use of a kneader or mortar. Tegin is a wax-like body melting at 57° C. The emulsifier and fats are placed in the water, brought to the boil and stirred until cold. A fine matt finish is obtained. A medium-fatty cold cream may be prepared as follows, using the procedure outlined above:—

Tegin ... ..	12 gm.
White petroleum jelly ... ..	20 gm.
Liquid paraffin ... ..	5 gm.
Water ... ..	63 gm.

By careful choice of emulsifiers now on the market almost any type of cream may be prepared satisfactorily.—E. A. L. (17/7).

# A National Insurance Discrepancy

A CORRESPONDENT draws our attention to what he considers is a discrepancy in the Medical Benefit Regulations—"another instance," he writes, "of the doctor coming off better than the chemist."

The chemist's terms of service contain a clause which requires him to supply with reasonable promptness the drugs and appliances that are ordered on an insurance prescription, and he "shall so far as practicable keep in stock for that purpose the drugs and appliances mentioned in the Drug Tariff." He is therefore specifically directed to lay out a certain amount of his capital on stock—not, it must be noted, selected by himself but definitely prescribed for him by the regulations.

The doctor's terms of service contain a somewhat similar clause: "A practitioner is required to supply to a patient such drugs and appliances as are required for immediate administration or application or for use before a supply can conveniently be obtained otherwise . . ." There is, however, no addendum to this clause similar to that which appears in the chemist's terms; and our correspondent asserts that to preserve equality between the two contractors the following words should be added: "and shall so far as practicable keep available for that purpose the drugs and appliances which may be so required."

It may be contended that it is unnecessary definitely to provide for this contingency by regulation, since the practitioner will always be able to supply from his own stock any drugs required in an emergency. This may be true, but a similar claim may be made on behalf of the chemist. He contracts voluntarily with the insurance committee to do insurance dispensing. It may be assumed, therefore, that he will take all steps necessary to carry out the work satisfactorily, and this includes keeping an adequate stock of drugs. Why, then, is he specifically required to stock the drugs included in the Tariff? Alternatively, if the requirement is not unreasonable, why is the doctor not specifically required to do that which he will naturally wish to do to enable him to fulfil his duties according to contract? We leave our correspondent's conundrum for the consideration of our readers.



## Treatment of Pertussis

**D**URING the past ten years efforts have been made, in various countries, to devise a serum or a vaccine which can act both as a controlling factor and as a prophylactic in cases of whooping-cough. In our issue of December 30, 1933 (p. 795), we noted the results obtained by L. W. Sauer, who had used, over a period of five years, *B. pertussis* vaccine prepared according to the Danish States Serum Institute specification with certain modifications. Sauer stated that active immunity is completed in four months and lasts for years.

A recent issue of "The Lancet" (5842,361) contains a review of recent research on this subject presented by Drs. Donald Paterson, R. H. Bailey and R. G. Waller. In addition to the review the monograph puts forward (1) a method of preventing pertussis in susceptible contacts, and (2) a method of vaccination, controlled by skin test, affording active immunity. The authors point out that the disease is an important one, there being on the average 40,000 cases annually in London alone. Deaths in England and Wales, in some years, amount to between 2,000 and 3,000.

At the Westminster Hospital, during the past four years, one of the authors has made use of convalescent human serum, first in treatment and later in prophylaxis. In the treatment some twenty-five to thirty consecutive cases, which had been admitted to a fever hospital as clinical whooping-cough, received, on admission, doses of serum varying from 5 to 25 c.c. No apparent improvement in the clinical condition, such as reduction in the number of whoops per twenty-four hours, occurred, nor was the total period of illness diminished. It is of interest to note that though these cases were unselected as regards the day of the disease, or severity of illness, none of the patients developed complications, and all recovered. Since the therapeutic effect of convalescent serum was doubtful, it was decided to try convalescent serum as a prophylactic agent. At the time this portion of the work was undertaken it was not possible to select known susceptible cases on which to practise prophylaxis. Natural immunity was an unknown factor to be considered. After giving details of the routine adopted, the monograph states that 42 per cent. of patients receiving serum appear to have been fully protected against the disease, but it was not possible to say for certain whether this represents a higher proportion than that of the naturally immune portion of the child population, though it is a higher proportion than in the control series. In the case of the 32 per cent. who developed the disease in a mild form, it was noted that the catarrhal stage began within ten days of receipt of the serum, and usually within a week. The disease was presumably approximately half-way through the incubation period before serum was administered. The 26 per cent. of cases developing the disease in the unmodified form were represented by twenty-one patients to whom serum was given at the end of the incubation period, as evidenced by the fact that the disease was clinically recognisable within two days of receipt of the serum, and by three who had received serum early in the incubation period, as evidenced by the fact that the disease was not clinically recognisable until a fortnight or three weeks had elapsed. It is of interest to note that no case developing the disease after serum injection developed complications or proved fatal.

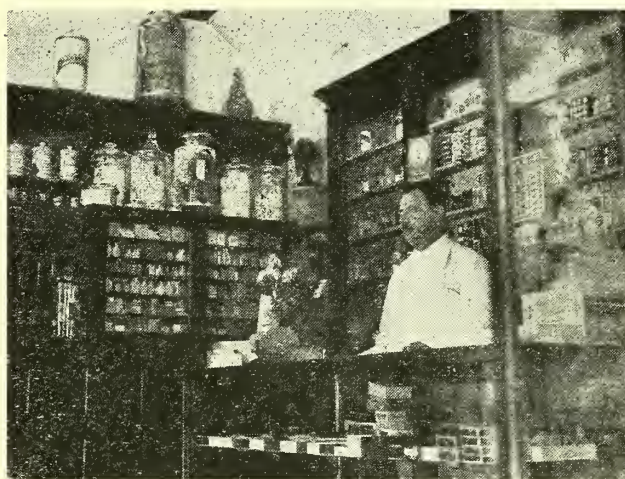
After referring to other large-scale investigations, including that of Sauer, the monograph states that an effort has been made to produce a satisfactory test which could be used in the consulting-room to show (a) whether a child has had an infection of the Bordet-Gengou bacilli, on some previous occasion; (b) whether specific treatment in a non-infected child had been of any avail after a course of injections. To this end various efforts have been made. An agglutination test was first attempted, but proved inadequate. Dr. Marshall Findlay (Wellcome Laboratories), working in connection with the authors, found that monkeys gave a positive intracutaneous skin test ten days after the second injection of vaccine. Observations have subsequently been made on four groups of children, and the results appear to show that from three to four weeks after the initial dose of vaccine the child shows a positive skin test which gives the physician some idea as to whether or not the treatment is effective, and agrees with the result of vaccination in other diseases.

## Malta as a Market

**T**HE Maltese Islands form a group in the Mediterranean Sea, the largest and most important being Malta itself. Their present importance lies in the fact that Malta is a strategic British naval base. When the fleet is in, the thousands of sailors provide the pharmacist and druggist with a great deal of business, while members of the Services stationed on the Island are also important customers. The population of Malta is approximately 250,000, and there is no lack of chemists and druggists in Valetta, the commercial centre, and Sliema, the residential suburb of Malta.

Empire chemicals and apothecaries' ware enjoy a preferential tariff of 10 per cent. *ad valorem*, whilst foreign products have to pay 20 per cent. import duty. The duty on methylated spirits is 8d. per litre, on medicinal spirits 3s. 4d. per proof litre (Empire preference) and 4s. 4d. (general tariff).

Pharmaceutical trade is well controlled by the authorities in Malta and British standards are maintained. You can buy almost anything there that you can get here, prices being in some cases lower than prevail in this country, in others more expensive. Chemists and druggists buy direct from suppliers



(1) Royal Pharmacy, Valetta

overseas or through a local agent. The best policy for manufacturers and other suppliers in this country would appear to be to keep in direct contact with chemists and druggists in Malta, but at the same time have a local firm as agents in Valetta. Such firms generally buy for cash against documents, the smaller firm of agents sending out their own canvassers, the larger establishments employing canvassers on a basis of commission or salary and commission. Approach to customers is not difficult in Malta, and the market can be covered in a few days. Malta abounds in commission agents handling all manner of articles, few, if any, specialising in one branch of business. In fact, to do so is unremunerative. The retailer is given credit or endorses bills drawn on him. Malta is a small place, and bad debts are few. Imports for 1934 were as follows:—

	Chemicals and Apothecaries' Ware	Methylated Spirits	Spirits Perfumed	Drugs
United Kingdom	£ 22,317	£ 22	£ 901	£ 671
France ...	3,960	1,660	1,210	134
Germany ...	3,457	489	401	6
Italy ...	5,269	13	106	16
U.S.A. ...	1,328	...	15	12
Total, including others ...	39,578	2,244	2,641	845

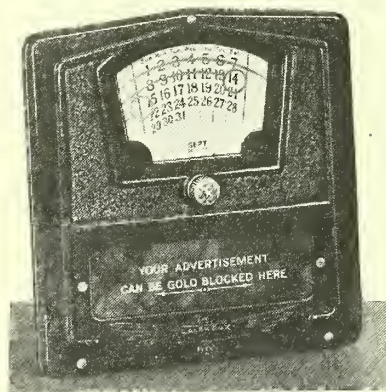
Imports of drugs, chemicals, and apothecaries' ware have risen steadily from £29,041 in 1930 to £42,694 in 1934. [W. B. 13/8.]



# Trade Notes

**SHOP LIGHTING.**—E. Pollard & Co., Ltd., Highbury Grove, London, N.5, draw attention to the Pollard Reflecta-Strip lighting, for which a provisional patent has been granted. The standard attachments give a shadowless white light and are easily fixed where wanted.

**ADVERTISING CALENDARS.**—Calendox, Ltd., 91 Petty France, Westminster, S.W.1, draw attention



to the Calendox perpetual date-cancelling calendar, which is issued in bakelite, leatherette and real leather, and in many colours. The calendar needs no refilling and a turn of the knob cancels the days with a red line, which leaves past and future dates clearly visible. A name or trade mark may be gold blocked or moulded on the front of any model, thus providing a useful and perpetual advertisement. Other advertising novelties,

including a non-skid desk pad and a one-year calendar, are available.

**OSTOMALT.**—Glaxo Laboratories, 56 Osnaburgh Street, London, N.W.1, are offering a special bonus parcel from September 16 to October 14 for Ostomalt 4-Vitamin Malt. Every parcel contains one dozen 1½ oz. samples free. Full details are given in our advertisement pages.

**GENASPRIN.**—A popular priced pack of Genasprin which contains ten tablets, is offered by Genatosan, Ltd., Loughborough, Leicestershire, and in addition the standard size has been enlarged to contain 50 Genasprin tablets. A new selling campaign is being launched this month to introduce these new packs. Display material is available on request.

**PEATTEX.**—Peat Trust, Ltd., Carlton House, Regent Street, London, S.W.1, are advertising Peatex, which is described as "a range of medicaments containing all the natural and germicidal properties of raw peat." The series of products issued under the Peatex brand is offered as distillate, bath concentrates, ointment, suppositories and liniment.

**NEW COTY PRODUCTS.**—Coty (England), Ltd., 3 Stratford Place, London, W.1, draw our attention to two new products which are additions to their "series for men." One is an after-shaving lotion for use to allay irritation; the other is a



hair-dressing lotion for dry or greasy hair. Messrs. Coty inform us that they have recently compiled a new catalogue which is rather more than a catalogue, in that it provides a series of useful chapters on matters appertaining to the toilet.

**PIVER OF PARIS.**—L. T. Piver, of Paris, whose sole concessionaires for the United Kingdom are Parscent, Ltd., Duke's Road, Western Avenue, London, W.3, announce in our advertisement pages that an important advertising campaign will shortly be opened with the view of increasing the sales of Poudre Mattever. New show matter in the form of a metallic show stand and metallic and washable gelatine showcards is available. In addition, a full range of samples and beauty booklets for use in the window and for counter display is obtainable. Mattever Setting Lotion, which is advertised at the same time, it is claimed, sets the hair without leaving any traces of either gum or grease.



**SIR NYNES THROAT PASTILLES.**—The Sherwood Confectionery Co., Forest Works, Worksop, offer Sir Nynes throat pastilles, which are packed in air-tight tins or in bulk. The tins are packed in display boxes which are printed in attractive colours for counter or window show.

**HOT WATER BOTTLES.**—Dunlop Rubber Co., Ltd., Cambridge Street, Manchester, are calling attention to their series of hot water bottles, which are offered at advantageous rates. These novelty bottles, advertised in this issue, are described as "all-rubber moulded," in red: the Dunlop Fabric Insertion Bottle in white or red: the Red Riding Hood bottle: and an animal series of hot water bottles which have a special appeal for children. Selling prices are fixed at a level which gives the dealer a generous margin of profit.



**CARIA RADIUM WATER.**—Thos. Christy & Co., Ltd., 4, 10, 12 Old Swan Lane, London, E.C.4, announce that they have been appointed distributors of Caria Water (Agua Radium), which is imported by Caria Spring Waters, Ltd., 19 Grosvenor Place, London, S.W.1.

**RHINITOL.**—E. T. Pearson & Co., Ltd., Mitcham, Surrey, are the makers of Rhinitol, which is the name applied to a preparation of menthol, ephedrine and other ingredients in vasogen. This is intended for use in colds, nasal catarrh, hay fever, etc. The preparation is packed in a hexagonal bottle with patent bakelite screw top to which a dropper is attached for application of the medicament.

**MOTHER SEIGELS PRODUCTS.**—Elsewhere in this issue an announcement is made that Mother Seigels Brand Digestive Syrup and Operating Pills are now available unstamped for sale by qualified pharmacists. Revised trade prices are published. Other products, which include plasters, ointment and malt cough balsam, continue to be issued stamped, and prices remain unchanged. A special advertising offer is made.





## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1935, p. 323.

(From "The Trade Marks Journal," August 21, 1935.)

- "MABRA"; for preparations for headaches (3). By N. A. Morton and W. M. Mathieson, 11 Miller Street, Glasgow. 561,291.
- "NEURASTINASE"; for medicated preparations (3). By Ellentee, Ltd., 158 to 162 Oxford Street, London, W.1. 561,431.
- "VITAMAXA"; for medicinal chemicals (3). By R. Ferber, Ltd., Carlton Works, Asylum Road, London, S.E.15. 561,499.
- "IDSOL"; for ointments and lotions for influenza, catarrh and nasal ailments (3). By Urwin & Co., The Manors, Newcastle-upon-Tyne, 1. 561,451.
- "CARBONACTYL"; for medicinal preparations containing carbon (3). By May & Baker, Ltd., 42/43 St. Paul's Churchyard, London, E.C.4. 561,581.
- "CALAN"; for all goods (8). By Porzellanfabrik Kahla, 25 Bahnhofstrasse, Kahla-in-Thuringen, Germany. 560,262. (Associated.)
- "ARGUS"; for photographic apparatus (8). By J. Tuddenham, 5 Wexham Road, Slough, Bucks. 561,296.
- "BERTOSE"; for sanitary towels (11). By A. Berton, Ltd., 256 to 260 Old Street, London, E.C.1. 561,131.
- "BONOCHORD" on design of human ear and cross on circle; for contrivances for the aid of deaf persons (11). By A. T. B. Betts, 34 South Side, Clapham, London, S.W.4. 561,047. (Associated.)
- "ZAVO"; for food substances (42). By F. W. Hampshire & Co., Ltd., "Sunnydale Works," Sinfen Lane, Derby. 561,840.
- "HALO"; for henna soap for the hair (48). By The Byard Manufacturing Co., Ltd., Castle Boulevard, Nottingham. 554,244.
- "NIROS"; for perfumery, etc. (48). By The Elephant Chemical Co., Ltd., 171-3 Neate Street, Camberwell, London, S.E.5. 558,572.
- "CARBOSIHEEN"; for plastic fixative preparations for the hair (48). By Wella Rapid, Ltd., 5/6 Eden Street, London, N.W.1. 559,435.
- "USCOL"; for perfumed soap (48). By Universal Soap Co., Ltd., Ripple Road, Dagenham, Essex. 560,467.
- "OCEANS BREATH"; for perfumery, etc. (48). By Raybould, Whitehouse & Co., Ltd., Wellington Road, Dudley, Wors. 561,193. (Associated.)
- "GAINSBOPUFF"; for powder puffs (48). By British Fur Puffs, 111 Oxford Street, London, W.1. 561,834.

(From "The Trade Marks Journal," August 28, 1935.)

- "STEMCOSOL"; for all goods (1). By Stanco, Inc., 100 West Tenth Street, Wilmington, Delaware, U.S.A. 560,123. (Associated.)
- "WITCO" on diamond shape; for photographic chemicals, etc. (1). By Witco, Ltd., Bush House, Aldwych, London, W.C.2. 560,141.
- "DERASIFT"; for insecticides (2). By Pan Britannica Industries, Ltd., 14 Waterloo Place, London, S.W.1. 561,183.
- "FACTAID"; for medicinal chemicals (3) and for surgical instruments, etc. (11). By T. J. Smith & Nephew, Ltd., 5 Neptune Street, Hull. 554,598/599. (Associated.)
- "KARLSBADER SPRUDEL"; for salts produced from natural mineral water, and lozenges produced therefrom (3) and for natural mineral water (44). By The Community of the City of Karlsbad, Karlsbad, Czechoslovakia. 554,786/787. (Associated.)
- "CELRIE"; for medicinal chemicals (3). By Parry Barker & Co., Greycoat Place, London, S.W.1. 559,679.
- "ZYMATIC"; for medicated preparations for treatment of the teeth (3). By Th. Mühlethaler S.A., Nyon, Canton de Vaud, Switzerland. 559,600.
- "SOLIDOX"; for preparations of peroxide of hydrogen in solid form (3). By Burgoyne, Burbidges & Co., Ltd., High Street South, East Ham, London, E.6. 560,959.
- Design of portrait of baby (Clifford Shelley) holding bottle with words "Gor Ir"; for medicinal chemicals (3). By S. Shelley, Ltd., 83 Market Place, Bilston, Staffs. 561,475. (Associated.)
- "BODYLINE" and "A SMITH PRODUCT" on design of blacksmith ("Bodyline" and "A Smith Product" disclaimed); for medicinal chemicals (3). By Smith & Co., 132 Borough, London, S.E.1. 560,586. (Associated.)
- "IILETS"; for medicinal chemicals (3). "ZARINA"; for perfumery, etc. (48). By R. Geneen and L. Katzenstein, 93 Mortimer Street, London, W.1. 561,153/155.
- "BIOCEL"; for medicinal substances for outward application (3) and for perfumery, etc. (48). By Tokalon, Ltd., Chase Road, London, N.W.10. 561,354. (Associated.)

## Births

Notices for insertion in this column must be properly authenticated.

DARBYSHIRE.—On September 4, Lillian, the wife of Harold Darbyshire, M.P.S., F.B.O.A., 13 Palatine Street, Denton, Manchester, of a daughter.

WATERWORTH.—At Homecroft Nursing Home, Rock Ferry, Cheshire, on September 6, the wife of J. W. Waterworth, M.P.S., 224 Bebington Road, Rock Ferry, of a daughter.

## Marriages

CROMBIE—DICK.—At the Grosvenor, Glasgow, on September 4, by the Rev. Kenneth McLeod, B.A., and the Rev. J. McCardel, B.D., Ralph Sinclair Stewart, younger son of the late Mr. James Crombie, Ph.C., to Elizabeth Anderson, second daughter of Mr. Alexander A. Dick, J.P., member of the Pharmaceutical Society's Council, Bellshill.

DAVIS—LAWSON.—At St. Mark's Church, Leamington Spa, on September 5, William Stanley Davis, chemist and druggist, son of Alderman C. Davis, chemist and druggist, to Joan, daughter of Mr. J. Lawson, Acacia Road.

GAFFIN—BURMAN.—At the Stockport Synagogue, on September 1, Julius Gaffin, chemist and druggist, to Sybil Burman.

JENKINS—POOLE.—At St. Peter's Church, Llanelly, recently, David Jenkins, chemist and druggist, Gorseinon, Swansea, to Nina Poole.

NICHOLS—SAVAGE.—At St. Andrew's Church, Lower Bebington, Cheshire, on September 5, Frederick James Nichols, chemist and druggist, to Edna May Savage.

PALMER—WESTON.—At St. Mark's Church, Portsmouth, recently, John Henry Palmer, chemist and druggist, Portsmouth, to Enid H. Weston.

PICKUP—BOARDMAN.—At the Sacred Heart Church, Blackburn, on September 7, Leo Pickup, chemist and druggist, only son of Mr. Ralph Pickup, chemist and druggist, to Madge Boardman.

SINGLETON—PARSONS.—At the Church of Our Lady of England, Storrington, Sussex, on September 5, Aubrey Benedict Singleton, M.P.S., son of Mr. R. A. C. Singleton, M.P.S., Hawkhurst, Kent, to Sarah Elizabeth, daughter of the late Mr. Peter Parsons, Bramber, Sussex.

## Wills

MR. WALTER MCGILL FERRIER, 69 Southesk Street, Brechin, chemist and druggist, who died on June 23 last, aged eighty-nine, left personal estate in Great Britain valued £5,507.

MR. GEORGE PHILLIPS, Hall Street, Carmarthen, chemist and druggist, who died on January 25, aged seventy-eight, left estate of the gross value of £2,102, with net personalty £1,939.

MR. CHARLES THOMAS WARD, 53 Southview Road, Southwick, Sussex, chemist and druggist, who died on November 23 last, left estate gross value £2,256, with net personalty £1,443.

MR. JOHN TODD WRIGHT, Market Place, Egremont, Cumberland, chemist and druggist, who died July 3 last, aged fifty-nine, left estate gross value £2,696, with net personalty £2,482.

MR. WILLIAM GEORGE THOMAS BENNETT, 21 Catford Hill, Catford, S.E., chemist and druggist, who died on April 29 last, aged fifty-four, left estate gross value £2,844, with net personalty £1,227.

MR. MATTHEW RICHARD WARNER, Kemberton, Richmond Road, Wolverhampton, Staffs, chemist and druggist, formerly in business in the Isle of Wight and in Lancashire, who died on March 21 last, aged seventy-six, left estate gross value £4,991, with net personalty £2,586.



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# THE CHEMIST AND DRUGGIST

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## British Association Annual Meeting

THE British Association for the Advancement of Science, which has been in session since September 4 at Norwich, concluded on September 11. The meeting, as is customary, can be described as having been a most successful one. There has been a reasonably good attendance and the meetings have been accorded an excellent Press. It would appear that the affection of the great British public in the affairs of science continues unabated, and the reason is perhaps that on occasions it is a pleasant change for the public to find that after all there is more in life than "bread and circuses." Taking the papers as a whole the level of the scientific contributions has been high. In these days, however, it is unusual for any spectacular discovery to be announced at the meeting of the British Association. In conferences, as elsewhere, the tendency is towards specialisation and it would perhaps be difficult to point to any great industry that does not hold an annual conference at which papers are read relative to the interests of the industry concerned. The British Association owes its conception to the desire to promote the study of science at a time when science was a puny offshoot of mental growth. There is no doubt, however, that it is of value in two directions: first it brings workers in specialised subjects in different parts of the world together on a common platform; and at the same time it enables the general public to realise how much is being done in a quite unostentatious manner towards the progress of the human race. Credit must be given to the imaginative journalists who present scientific subjects with unusual captions so as to arouse the curiosity and so read on. "The Doom of the Haystack," for example, is the caption suggested by one of the leading daily newspapers as an alternative title for the discussion on the chemistry of grass crops. Hay-making, apparently, is a wasteful process, and we have no doubt that, despite the lamentations of poets and artists, the time will come when newer methods of conserving the important material of grassland for winter use will make their presence felt.

A subject of perhaps more than passing interest is that of the presidential address of the Section on Physiology entitled "The Pituitary Body and the Diencephalon." The pituitary gland has been described as "the leader of the endocrine orchestra." It has an extraordinary list of functions which are exercised by means of secretions; one regulates growth, shortage producing dwarfs and excess resulting in giants. Another of its secretions controls the growth and function of the sexual organs. The action of pituitary as a galactagogue has long been known and the same secretion causes broodiness in fowls and the production of crop milk in pigeons. Perhaps the most important secretion from the pituitary gland is that obtained from the posterior lobe. This secretion contains two principles, the one causing an increase of blood pressure, the other having a contractive action on the uterus. This latter effect is a valuable one

in gynaecological work. It is obvious from Professor Herring's address that the pituitary has an extremely important effect in the determination of human temperament, and when Henley boasted that he was the "captain of his soul and master of his fate" he was speaking in ignorance of the stranglehold which the pituitary gland can exert on human endeavour.

## A Sunday "Story"

In a recent issue of the "Sunday Dispatch" a news paragraph appeared with the caption "Chemists Demand a New Law." On reading further, we found that "many British chemists are demanding that Britain should have a law to punish doctors if their prescriptions are illegible." Mr. J. Rutherford Hill, secretary of the North British Branch of the Pharmaceutical Society, was reported to have said:—

Doctors should write their prescriptions so that they can be read by everyone. Some are almost impossible to read. In one case a bewildered chemist dispensed sulphate of zinc instead of sulphate of quinine. The zinc, of course, was poison, but fortunately in the quantity prescribed it was not vital.

Finally, the statement was made that it has been suggested that the General Medical Council should instruct doctors to use either type or write their prescriptions in block capitals. On drawing Mr. Rutherford Hill's attention to his reported comment we were not surprised to hear that he had no recollection of having been interviewed by any representative of the "Sunday Dispatch," and, further, it astonished him to learn that he had been quoted in this Sunday newspaper. He goes on to state:—

We are frequently consulted in regard to difficult prescriptions and, in almost every case, the difficulty is due to illegibility. This defect seems rather on the increase than otherwise. In recent years there has been a very marked degeneration in the quality of handwriting generally. It is distressingly evident, for example, in written examination answer papers. It almost seems as if school training in good handwriting is not now efficiently carried out. Some say the fountain pen is to blame. This defective handwriting creates a situation fraught with danger in the case of medical prescriptions and we have numerous instances in which the skill and caution of the pharmacist has saved the situation and protected both the prescriber and the patient. . . . Many times I have had occasion to comment, at pharmaceutical meetings, on the difficulties and dangers of illegible prescriptions and have expressed the opinion that prescriptions should be so clearly written as to be readily and accurately understood by the dispenser. The incident printed in block type, which professes to be a quotation, is certainly not expressed in language ever used by me, although the instance has been used, along with others, on many occasions at pharmaceutical meetings. It is one of quite a long series of illustrative examples of the danger attending an illegible prescription and the need for caution on the part of the dispenser. . . . I have never before heard of the suggestion in the paragraph that the General Medical Council should issue orders that doctors should either type or write their prescriptions in block capitals. I should say that that is quite unnecessary. Reasonable care in writing is all that is required and it would save much time and trouble, not only to the pharmacist, but also to the N.H.I. Central Checking Bureau, as well as safeguarding the patient against any possible risk.



One unfortunate result of such garbled reports is to create in the minds of the public a feeling that they are in danger of being poisoned because of the illegibility of the writing of the prescriber. We on our part cannot but express admiration for the manner in which illegible prescriptions published in the columns of THE CHEMIST AND DRUGGIST from time to time are deciphered, and we imagine it is because of the chemists' skill in the past that illegible handwriting on the part of members of the medical profession has been allowed to pass for so many years.

### British Chemicals at Brussels

ELSEWHERE in this issue we present a series of illustrations depicting some of the exhibits of British manufacturers at the Brussels International Exhibition. This Exhibition is the first to be held in Brussels since 1910, on which occasion also Great Britain exhibited. It has been claimed that at the Brussels Exhibition a new era in international exhibitions has been inaugurated, and it is noteworthy that the British chemical exhibit, which is organised on a national basis and in which the name or trade mark of no firm appears, has, because of its uniqueness, attracted a great deal of attention. The area of the British chemical section, which is housed in the British Government Pavilion, is in the form of a square in the centre of which is an octagon with three bays on each side. The top part of the octagon has four alternate faces occupied by symbolic paintings in relation to fertilisers, dyestuffs, chemicals, paints and lacquers. On the four faces alternating with the paintings are the names and dates of sixteen famous British chemists. The exhibit is divided broadly into the following sections: Fine chemicals; pharmaceutical chemicals; heavy chemicals; dyestuffs and allied products; plastics; coal tar; and agricultural chemicals. Inquiries can be dealt with at the octagon within the area of the exhibit. It is always difficult to appreciate the value of an exhibition in terms of financial return, but it is obvious that this combined and representative display of products on the Continent by notable British manufacturers is bound to have an important repercussion on the prestige of British chemicals abroad. In addition to the British chemical exhibits, which was organised by the Association of British Chemical Manufacturers, displays of chemical products are made by Belgium, Czechoslovakia, Hungary, Poland, Switzerland and France.

## Mauritius Camphor and Camphor Oil

THE Bulletin of the Imperial Institute (Vol. 33, No. 2, pp. 142-146) states that it has long been known that certain camphor trees, including those of Mauritius, yield an oil from which no solid camphor can be extracted. In 1927 seeds of *Cinnamomum camphora* from trees known to yield solid camphor were imported from Formosa and planted in the Botanic Gardens, Curepipe. In 1931 the trees were pruned and the leaves and twigs collected and distilled. Out of 169 samples treated, 17 gave oil only and the rest solid camphor. The oils were light in colour with a fine odour, and had the following characters:—

Specific gravity at 20° C., 0.8831  
Refractive index at 20° C., 1.4669  
Optical rotation, +14° 34'

Typical Mauritius camphor oils are laevo-rotatory. In 1934 a larger distillation was performed (785 kilos. of material) and a yield of 1.4 per cent. of solid crude camphor was obtained. This was examined, and the crude solid camphor was found to consist of a mass of small camphor crystals in a somewhat moist condition. On pressing 13 per cent. of oil and water (mostly water) was expelled.

The camphor oil was a clear, very pale greenish-yellow oil, from which a small amount of solid camphor had separated. On cooling the oil to 0° C. for several hours a further quantity of camphor separated. Together a yield of 10 per cent. of solid camphor was obtained from the oil. After removal of this

10 per cent. of solid camphor, the oil had the following constants:—

Specific gravity, 0.9189  
Optical rotation, +33.22° at 16° C.  
Refractive index, 1.4754

By repeated practical distillation of this residual oil and cooling of the appropriate fraction, a further 26 per cent. of solid camphor (calculated on the oil as received) was obtained, making a total of 36 per cent. on the original oil. The results are appended, together with a comparison with Burma camphor oil:—

Fraction boiling at	Present Sample		Burma Camphor Oil	
	On residual oil after removal of solid camphor separated at 0° C.	Calculated on oil as received	On residual oil after removal of solid camphor separated at 0° C.	Calculated on oil as received
Up to 195° C. ...	25.7	23.1	31.0	29.1
195-225° C. ...	20.1	18.1	9.3	8.8
225-245° C. ...	2.7	2.4	5.2	4.9
Over 245° C. ...	15.2	13.7	18.6	17.5
(Camphor) ...	(28.8)	(36.0)	(28.3)	(32.6)
Total ...	92.5	93.3	92.4	92.9

The light oil (lowest boiling fraction) had a specific gravity of 0.8617. This fraction was found to contain 2 per cent. of cineole, equivalent to 0.5 per cent. of the original oil. An examination for safrole showed that, if present, it was only in exceedingly small quantities. As a result of the foregoing tests it may be stated that this sample was similar in composition to ordinary camphor leaf oil and contained much camphor in solution. The yield of 1.4 per cent. of crude solid camphor is good if, as was presumably the case, the figure is expressed on fresh green leaves containing 50 per cent. or more of water. A table of yields is appended for purposes of comparison:—

Description	Yield of solid camphor separated by filtration and expression	Additional camphor from residual oil by fractionation	Amount of residual oil	Total Yield of solid camphor and oil
Air-dried leaves and twigs from St. Lucia containing 9 per cent. of moisture ...	1.9	0.3	0.7	2.9
Air-dried leaves and twigs from Uganda containing 12 per cent. of moisture ...	1.6	—	—	2.3

This Mauritius oil differs largely from the commercial camphor oils sold in the United Kingdom, which are fractionated products obtained by redistillation of crude residual camphor wood oil from which all solid camphor has first been removed by filtration and pressure.

The principal oils are Japanese "light" (or "white") and "heavy" (or "brown") camphor oil. The "light" oil would correspond with the first fraction obtained in the distillation of the present Mauritius oil, and consists of terpenes and some cineole. The "heavy" camphor oil represents the higher-boiling fractions of the crude camphor wood oil and is the chief commercial source of safrole (25 to 35 per cent.). This Japanese "heavy" oil thus differs from the higher-boiling fractions of the present leaf oil, which contains little or no safrole. The market prospects of the present oil are not very good, as the trade demands fractionated products.

FORBIDDEN WEEDS.—"Curiously enough, the other two weeds, which, with ragwort, are forbidden by law, and for which any farmer may be prosecuted for growing—docks and thistles—were never more flourishing than they were this year. In the Midlands I have seen broad acres given up to thistles and meadowsweet."—"Irish Times."



# "The Leader of the Endocrine Orchestra"

Abstract of address by Professor P. T. Herring, M.D., President of the Physiology Section, British Association for the Advancement of Science, Norwich, 1935, entitled "The Pituitary Body and the Diencephalon"

THE pituitary body, the "Glans pituitam excipiens" of Vesalius (1543), from the time of Galen to the seventeenth century, was looked upon as an organ for separating the waste products from the brain and diverting them into the nose and pharynx. In the transformation of vital into animal spirits the residues were removed as pituita or phlegm, and the act of sneezing was held in high esteem as a means of clarifying the mind.

Experimental research upon the organ may be said to date from 1895, when Oliver and Schäfer discovered that the gland contains an active principle, which, when injected into the blood, raises the blood pressure and increases the activity of the heart. In 1905 Alfred Fröhlich described a pathological condition in man, associated with obesity and genital infantilism, to which he gave the name "dystrophia adiposogenitalis." Since that time, and particularly during the last few years, great advances have been made in the knowledge of the functions of the pituitary body, and of that part of the brain to which it is attached. The work of Harvey Cushing calls for special mention, for to him and his pupils many of the most valuable contributions are due.

## Hormones of the Pituitary

Many hormones are now allocated to the pituitary body, and more may be discovered. It is as yet impossible to say that the numerous preparations which have been made represent substances actually secreted by the gland, and until the hormones can be isolated in a pure state we cannot be certain of their properties. The hormones of the anterior lobe are carried by the blood to all parts of the body, and their ultimate effects are complicated by the enhancement or otherwise of the internal secretions of other glands upon which they act. The secondary results may indeed be more pronounced than the primary.

The mode of action of the active principles of the posterior lobe is even more obscure. It has already been noted that effects of a different nature are produced according to the way in which the extracts are exhibited. We cannot at present be certain whether they act locally upon the diencephalon, or more generally through the blood stream. Possibly both methods may be utilised.

In disturbances of the human pituitary body, and especially in those occasioned by the growth of adenomata, there is the further complication, stressed by Harvey Cushing, that the pituitary body lies in a rigidly enclosed case. The growth of one element must be at the expense of another. An adenoma of the growth-producing cells not only exercises its own action by increasing production of the growth hormone, but it leads to a diminishing output of other hormones, the lack of which shows its own train of symptoms. Hence arise so many of the different syndromes associated with pituitary disturbance. Secondary effects still further complicate the picture. The hypothalamus may be involved, and differences of opinion arise as to whether symptoms are attributable to the pituitary or to the brain.

## Anterior Lobe

Hormones have been more or less completely separated from the anterior lobe which stimulate growth and exercise a controlling influence over many important organs of the body, the gonads, thyroids, parathyroids, thymus, cortex of the suprarenals and the mammary glands. Extracts have also been prepared which exert a powerful influence upon metabolism, especially of carbohydrate and fat.

The growth hormone has been so far isolated by Evans to yield a white hygroscopic powder, stable in dry air, and containing about 15 per cent. of nitrogen. From Cushing's observations in adenomata it is probably a product of the acidophil cells. The growth hormone has been successfully used to produce giants in growing rats and dogs. It has also induced conditions in adult dogs similar to acromegaly. The hormone

appears to stimulate the osteoblast to increased bone formation. It would be interesting to test its effects in cartilaginous fishes, the pituitaries of which are lacking in acidophil cells. Impure extracts bring about splanchnomegaly and other changes which may be due to their admixture with other active principles.

The gonad-stimulating, or gonadotropic hormone, is probably a product of the basophil cells. In a basophil adenoma recorded by Teel typical hypertrophic changes occurred in the ovary. Zondek and Aschheim, and Smith and Engle, found that implantation of anterior lobe tissue in immature female rats and mice brings about rapid sexual maturity. Zondek and Aschheim prepared two extracts of the anterior lobe, which they called prolan A and prolan B, the one acting as a stimulus to the maturation of the Graafian follicle, and the other bringing about its rapid luteinisation. Collip has shown that the material of these authors, prolan, is obtained from the placenta and from the urine of the pregnant animal. Evans and others believe that prolan is not the true gonadotropic hormone. It is termed by Collip the A.P.L. or anterior pituitary-like substance, and is probably activated by the true gonadotropic hormone of the pituitary.

It has long been known that removal of the anterior lobe of the pituitary results in rapid atrophy of the gonads, male or female.

Extracts of the anterior lobe exert a similar influence upon the thyroids. Removal of the anterior lobe is followed by atrophic changes in them, while the injection of suitable extracts leads to their hypertrophy, even in the hypophysectomised animal. Loeb and Aron independently ascertained that extracts of anterior lobe produce in the guinea-pig hyperplasia of the thyroids, exophthalmos and other changes similar to those found in Graves' disease. Shockaert has obtained striking results of the same nature in young ducks, and Houssay and others have produced them in various animals. It has been shown that exophthalmos may be caused by the injection of suitable extracts, even after removal of the thyroids. Marine has obtained exophthalmos by the use of methyl cyanide, and looks for its cause in the lessened oxidation acting through the diencephalon upon the pituitary body and the sympathetic system. Graves' disease appears to be a syndrome in which the pituitary body and the diencephalon play an important part.

The thyrotropic hormone has been prepared in a state of considerable purity, but it is not known from which type of cell it arises. Anderson and Collip have noted that repeated injections of this preparation bring about some immunity to its actions.

Houssay and Sammartino have noted atrophic changes in the parathyroids of dogs after removal of the anterior lobe, and Anselmino and Hoffmann have produced enlargement of these bodies by the injection of extracts of the lobe. Other workers have also obtained evidence of a parathyrotropic hormone in the anterior lobe.

Removal of the anterior pituitary sets up atrophic changes in the cortex of the suprarenals, and Evans has shown that this can be prevented by the use of suitable extracts of the lobe. Houssay finds that the zona fasciculata and zona reticularis are the parts mainly affected. There is no change in the structure of the medulla or in its content of adrenaline. Collip has succeeded in separating the adrenotropic hormone from the others.

Riddle and Bates have prepared a hormone, prolactin, from the anterior lobe which induces lactation in the fully developed mammary gland, growth and functioning of the crop-gland in pigeons, and brings about broodiness and the inhibition of ovarian function in fowls.

Harvey Cushing and his co-workers have drawn attention to the changes in carbohydrate metabolism which are exhibited by patients and by experimental animals in hyper and in hypopituitary states. Houssay and Magenta found that after removal of the pituitary body dogs are especially sensitive to insulin, and become rapidly hypoglycæmic. Houssay and



Biasotti showed that the glycosuria following pancreatectomy can be prevented in toads by removal of the pituitary body. Somewhat similar results were obtained in dogs. Removal of the pituitary diminishes the glycosuria caused by pancreatectomy, and dogs so treated may survive for six months without recourse to the use of insulin. The animals lost weight, but there were occasional periods during which they actually gained weight. Hypoglycemia was a feature of the condition and some of the dogs required injections of glucose to keep them alive. Houssay believes that the pituitary is antagonistic to the pancreas in carbohydrate metabolism, and that the anterior lobe is the main factor. It is of interest to note that Houssay and Biasotti found that injury to the tuber cinereum or to the mammillary bodies has no influence upon the course of pancreatic diabetes.

Baumann and Marine have produced glycosuria and hyperglycemia in rabbits by the daily injection of the anterior lobe, and Evans and his co-workers obtained the same result in two out of four dogs by the daily injection of the growth hormone continued for eight or nine months.

Repeated injections of anterior lobe extracts have also been found to produce ketonuria, lipemia and cholesterolemia, in addition to hyperglycemia and increased resistance to insulin.

### Posterior Lobe

The posterior lobe furnishes an extract which is rich in physiological activity, but which has not so far been separated into more than two fractions, each possessing its own definite properties. The pressor effect was discovered by Oliver and Schäfer in 1895, and located to the posterior lobe by Howell. Evidence of there being at least two active principles in pituitary extract has been confirmed.

The pressor substance has little action upon uterine muscle, but stimulates other plain muscle, raising blood pressure and provoking peristalsis.

In 1906 Magnus and Schäfer first described a diuretic action of posterior lobe extract.

The relationship of the secretion of the posterior lobe to the metabolism of carbohydrate and of fat is still obscure. Goetsch, Cushing and Jacobson obtained evidence of an influence of the posterior lobe upon carbohydrate metabolism, and looked to the reflex liberation of a pituitary hormone as the cause of glycogenesis in the liver. Burn showed that an extract of the posterior lobe, which he later identified in the vasopressin fraction, prevents the fall of blood sugar which follows an injection of insulin. Vasopressin has little immediate action upon the amount of sugar in the blood, and Dale regarded the pituitary principle as a direct antagonist to insulin. Hynd and Rotter found that in white rats, especially in those upon a carbohydrate diet, vasopressin induces a slight hyperglycemia accompanied by a fall in liver glycogen and a rise in muscle glycogen. The amount of fat in the liver increases, as was first pointed out by Coope and Chamberlain, but soon falls and is followed by a greater accumulation of glycogen. The ultimate effect of the injection is the reverse of that first seen. Raab ascertained that pituitrin decreases the amount of fat in the blood, and is the more potent when injected into the ventricle. Moreover, the effect is abolished by a variety of nerve lesions. On these grounds Raab believed that pituitrin acts on a nervous mechanism in the hypothalamus. In later work Raab concluded that a separate principle is the factor responsible, and that it is a product of the anterior lobe.

Smith has shown that injuries to the tuber cinereum may result in great obesity in rats, and Cushing has reported that one of Maddock's dogs, in which a clip was placed on the pituitary stalk, eventually became very fat.

The deposition of fat in various parts of the body and the increased tolerance for sugar are well-known features of some forms of pituitary disturbance in man, but the opposite conditions also occur. It is at present impossible to determine how far the posterior lobe of the pituitary is concerned in these alterations of metabolism. Many of the observations were made before the importance of the anterior lobe was discovered. Hunger and thirst are sensations of primary importance to the animal. The nerve impulses responsible for their production act on the diencephalic mechanism, and the pituitary body is called upon to make the necessary adjustments.

Zondek and Krohn have recently claimed the presence of a specific hormone, "intermedin," which gives a characteristic erythrophore effect in the minnow. The hormone is said to be formed by the cells of the pars intermedia and liberated

into the third ventricle. Traces of it may be found in the wall of the ventricle, but not in the blood or in the fourth ventricle. Its action is presumably upon a local nerve mechanism in the diencephalon, and is said to be specific.

Other activities of the posterior lobe have been described. Dodds and Noble have advanced the theory that the control of blood destruction is exercised by the posterior lobe through an influence upon reticuloendothelium. They have obtained by the injection of extracts in rabbits hæmorrhagic lesions of the acid-secreting areas of the stomach, and rapid destruction of red blood corpuscles accompanied by an increase of macrocytes.

Other effects upon the blood are described. The production of ulcers in the stomach and upper parts of the intestine has been attributed to the action of pituitrin upon nervous mechanisms in the hypothalamus controlling the blood vessels of these areas.

A multiplicity of actions can undoubtedly be evoked by extracts of the posterior lobe, but one may well question if all be normal functions. The oxytocic principle is found in male as well as in female animals, and there is a remarkable similarity in many of the products of the pituitaries of all vertebrates, irrespective of their apparent physiological requirements. One is compelled to conclude that the active principles of the pituitary are such as are necessary for the regulation of common and fundamental processes in the life of the animal.

## Quinine and Malaria

At the meeting of the British Association held on September 9 a discussion of the Chemotherapy of Malaria was opened by Lieut.-Colonel S. P. James, F.R.S., who pointed out that the British Empire is more concerned with the provision of effective anti-malarial drugs than any other nation in the world. Until recently the alkaloids of cinchona bark were the one and only effective remedy available. These natural products, however, are not effective for certain therapeutic purposes. The aim of chemotherapy is to find preparations which will be effective. Two remarkable synthetic anti-malarials, namely plasmochin and atebirin, have been discovered and prepared on a large scale in Germany, and their merits and defects are now being assessed in the laboratory and in the field. Their discovery has given a great stimulus to chemotherapeutic work. An outline was given of methods and plans which are being tried or have been suggested for extending anti-malarial chemotherapy research in England, where as yet it has been entirely neglected by the chemical industry and has received almost no financial assistance from Government or other sources.

### Bird Malaria

The chemotherapy of bird malaria and its importance in relation to the therapeutics of human malaria was alluded to by Professor D. Keilin, F.R.S., Dr. P. Tate, Dr. M. Vincent and Dr. T. A. Henry. Synthetic quinoline compounds prepared by Professor R. Robinson and co-workers have been tested on bird malaria in Cambridge. Twenty-four of the eighty compounds tested have definite anti-malarial action. It is possible to determine the action of a compound on gametocytes and on sporozoites. The results of work on bird malaria are not always applicable to human malaria, but so far every synthetic compound of value in human malaria has been discovered by means of preliminary tests on bird malaria. Dr. T. A. Henry dealt with the investigation of natural drugs having a local reputation as remedies for malaria, e.g., the Alstonias of Australia, India, West Africa and the Pacific Islands, from which a group of alkaloids have been isolated which are of scientific interest, but are devoid of anti-malarial activity. The eight principal cinchona alkaloids have been prepared in a pure state and tested in bird malaria. The results show that they can be arranged in the following descending order of activity:—(1) Hydroquinine, (2) quinine, (3) hydroquinidine, (4) cinchonidine and quinidine, (5) cinchonine, hydrocinchonine and hydrocinchonidine. Modification in the molecular structure of cinchona alkaloids on anti-malarial action may result in the development of pharmacological activity of another kind.



## Knowing the Goods

Successful selling depends to a great extent on the salesman having an intimate knowledge of his wares. In this article "Scrutator" makes several interesting and profitable suggestions

**I**N retail business the chemist is not only the buyer in his shop but he is also the salesman. In such circumstances he must know a great deal about his goods. It might be said that he should know everything there is to know about the goods he buys and sells; but in these days that would be an impossibility. He should, however, know that which is reasonably possible, in order that he can sell the goods which he has for disposal. The man who has such knowledge of the articles he sells that he can find uses for them that were not known before is proportionately increasing his chances of selling those goods. An article having but one recognised use, and a second one being discovered, will have two chances of being sold where only one existed before.

Where quality and price play such a large part in salesmanship, a salesman who can explain, in a way to satisfy a customer, the advantages of one toilet soap as against another can usually sell the better quality. A test of salesmanship can easily be made by going into any large store and seeing if the first salesman questioned can explain the difference between a boiled soap, a milled soap and a superfatted soap. Even when one knows all the selling points and the essential differences between the various types and qualities of an article, this is useless unless such knowledge is imparted to the customer.

### Opportunities

There are opportunities in salesmanship for the application of specialised knowledge. Olive oil, liquid paraffin and cod-liver oil are typical examples of cases in which an opening is there for the man who knows and has the ability to pass on his knowledge. The toilet side of the business, too, allows ample opportunity for the application of real knowledge. It is not always possible to say all one would like to say about the goods that are displayed. Small cards with pithily written sentences explaining the uses of an article, as well as good reasons for its purchase, often make a sale.

One of the largest departmental stores in this country has a daily advertisement in "The Times." These announcements often deal with things far removed from the business of the firm. From a recent article of the series, published by Selfridge & Co., Ltd., and written by "Callisthenes" under the heading "The Constitution of a Department," I have taken, by permission, the following extract which is very appropriate to the subject of this article. The principles can be applied to any business, and particularly to that of a chemist. In the article in question they refer to Messrs. Selfridge's 235 selling departments. The organisation behind each of these departments is briefly referred to, but the important point is in reference to the buyer, who takes the place of the owner of the chemist's shop; and what he must do in the one case is what should be done in the other. The article continues:—

"The buyer must know the general wishes and inclinations of that section of the public which comes to his Department. He must know not only what the public want to-day but must try to know what they will want six months hence. He must know what they want before they know they want it. . . . He must also know the markets not only of this country but of the world, and he must take advantage of every opportunity which this Store offers him to extend and improve that knowledge.

He must be a man of good taste so as to know what is desirable and what is undesirable in the merchandise offered for his Department. He must train his taste by keeping himself abreast of the best artistic judgment of to-day.

He must be a sound judge of value. . . . He must be unceasingly watchful of the stock under his care. He must know exactly how the prices of it compare with those of every other store or shop. He must be open to ideas. He must train his staff. He must be an example of mercantile energy. . . . For all these purposes the buyer must have the co-operation of the assistants. It is theirs to deal directly with the public and so maintain in that work a flawless courtesy. They must contribute to the Department's stock of ideas.

They must have an enthusiasm, almost an affection, for the goods they handle."

If the pharmacist would cease from merely letting people buy, and would, with his knowledge, become a true salesman, then with the same overheads he could greatly increase his trade. In addition to this he would be rendering a genuine service to the community by selling better goods and the most appropriate articles.

## Advice to a Junior

**I**T is the exception rather than the rule for the young to accept the dictum that experience knows best; and in some ways this is an advantage. There is nothing more important in your business career than an enthusiastic attention to every side of your job and the constant endeavour to show your ability. As you do your respective jobs, there occasionally flashes across your mind what is usually termed a "brain wave," some idea which suggests an improvement upon the method already in existence and so will save time, money, labour, or all three. But early in life the junior comes up against that apparent store of "experience." It is well, therefore, for the junior to consider the question of the development of ideas.

First of all, the fact that an idea occurs to one indicates intelligent interest, but it often happens that the person who conceives the idea is unable to develop it in its full relation to the surrounding conditions. This is usually due to the fact that the person with the brain wave only sees one side of the problem. An idea therefore has to pass through a series of evolutions which may involve the energies and efforts of many people, and may actually affect the whole course of a particular job.

It is but natural that the thinker, visualising as he does an advantage, should expect the idea to be accepted with open arms. On how many occasions is that idea received without enthusiasm, even at times with frigid depreciation, with the result that the junior does not think it worth his while to bother. This attitude, while natural, is not commendable. The more interest you take in your job the more likely you are to spot improvements.

As a simple example, a junior who is interested in display work discovers that the use of a particular lighting may considerably enhance the effect of his display. He suggests this, maybe he is commended upon it, and nothing further happens. The necessary "wider vision" brings in other possibilities. First, that improvement in display creates an increase in expense. Is the extra cost justified from the point of view of increased business? Feats must be more than spectacular; and while on the surface it seems logical that a more attractive display should create more sales, it is by no means inevitable, and every expense must be justified by results. There may be a further complication that electrical regulations are disobeyed or that a fire risk is created which was not present before. Then again, the idea may be intrinsically good but does not, of itself, extend far enough, with the result that the original idea seems to become involved in a series of changes which completely eclipse it. The reason for non-acceptance will teach a lot, and the object of one's early training is to gain experience of every kind, so that when later the junior becomes the senior he can with good judgment handle the ideas which his own juniors develop and put them to the best and most productive use.

The development of ideas adds to development of character. It helps also to lighten monotony of routine; it helps to develop one's business experience. There are certain principles which have to be remembered. There must be a definite relationship between the expense of selling and the selling price. Business as a general rule is not outstandingly exciting, but it can have its moments of triumph, and those moments are more certain of development through enthusiasm than through bored acceptance of routine. Do not hesitate to make suggestions, but do not expect many of your suggestions to see achievement until the cold light of reason has been ruthlessly directed, not upon the idea itself, but upon its implications.—N. W. H. (30/10).

A GROWING TRADE.—"Londoners certainly possess a sweet tooth. A new sweetstuff shop is opened, it is stated, every day in the London area."—"City Press."



# Specialisation in Precipitated Chalk

Meeting modern Toilet and Industrial Requirements

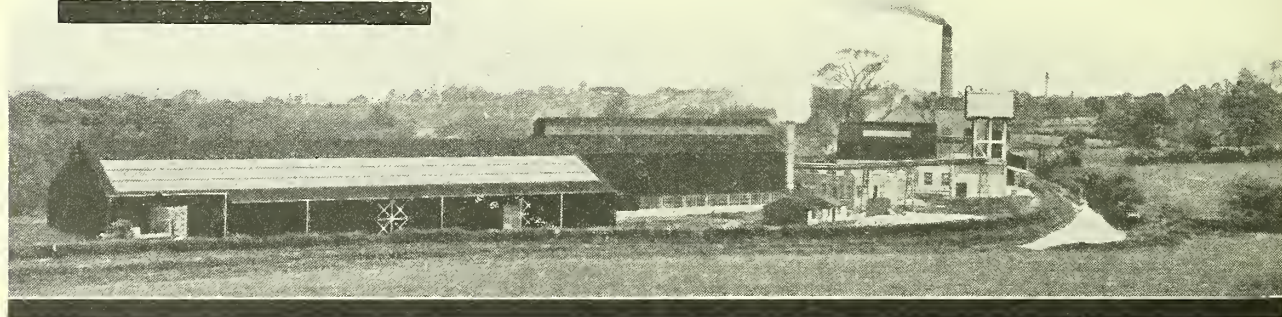
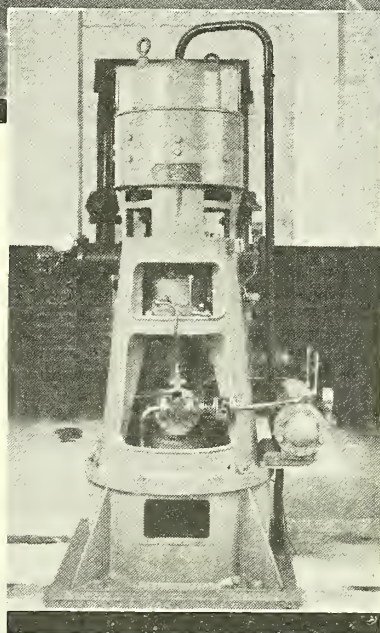
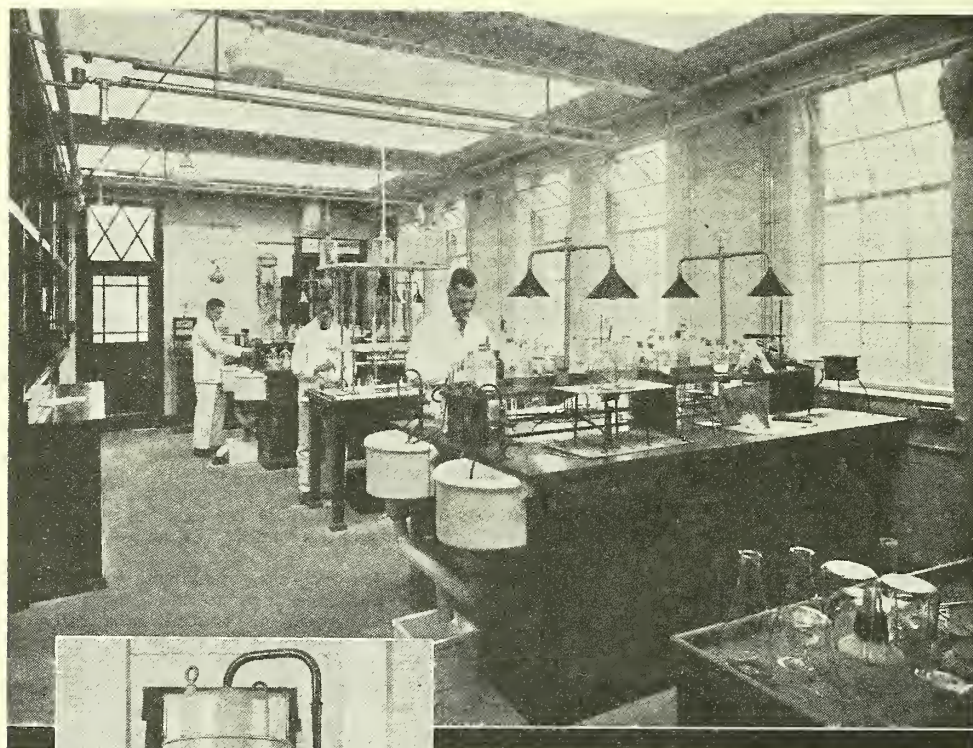
*The last few years have witnessed very considerable change in the requirements of consumers of Precipitated Chalk. The manufacture of this product has now become a highly specialised industry in relation to density, colour and chemical analysis, particularly for use in the manufacture of Face Powders and similar cosmetics, Tooth Pastes and Powders, etc. To meet this ever-growing demand, John & E. Sturge, Ltd., 1 Wheeley's Road, Birmingham, who have been producing precipitated chalk for over thirty years, are now re-building and*

*extending their Lifford Works near Birmingham, of which some photographs are reproduced in this pictorial review.*

*Above:* The new main control Laboratory which has been added to the Research Laboratories.

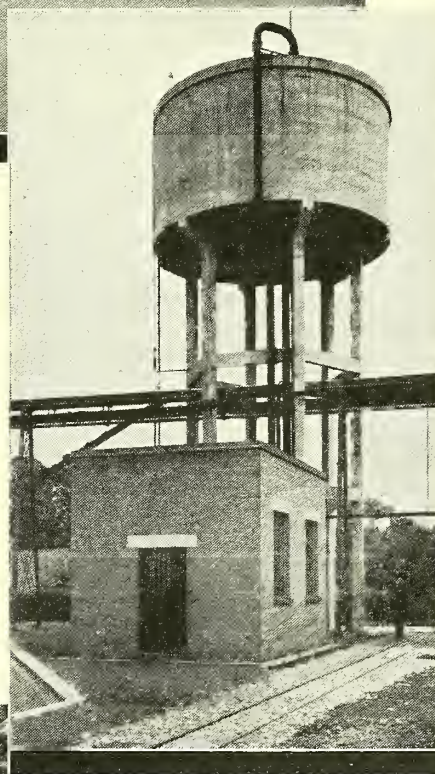
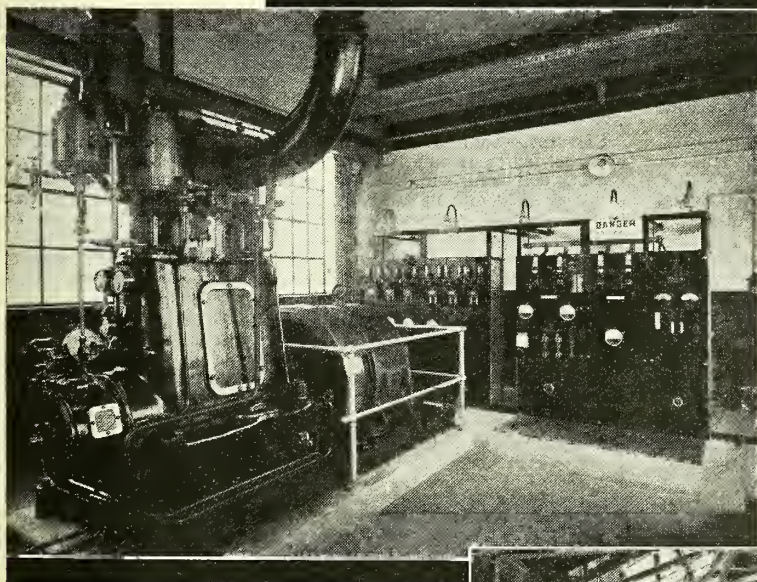
*Left:* Automatic Pump. Water of exceptional purity is pumped from a depth of 1,200 feet.

*Below:* A general view of the Lifford Works. The new warehouses which are provided with six loading bays with electric loading apparatus are on the left. Canal, rail and road transport are available.





Over one hundred varieties of chalk and packages are in regular supply and, it is claimed, the factory is now capable of producing a product to meet the exact requirements of all consumers, whether it be for medicinal purposes, as a "filler" in the rubber industry, for the paper, paint, printing or polish industries, besides its chief outlets—the toilet cosmetics industries.



*Top:* Interior of a warehouse, showing electric loading apparatus in operation.

*Left centre:* Interior of Power House, with Belliss engine and generator, which provide light, heat and power for the whole factory.

*Right centre:* Water Tower with Pump House.

*Right:* Another warehouse with hessian bags in the foreground and paper sacks; the latter is the standard package for the home trade.





# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

## 28 Essex Street, W.C.2, September 12

THE markets as a whole have experienced a week of quite good business and the trade has been well spread over a wide range of products. The general tone is healthy and some of the natural products are particularly strong. There is again but little of importance to comment on in the PHARMACEUTICAL CHEMICALS markets. Business has certainly been a little better and it has been noted that, for instance, export orders for POTASSIUM IODIDE have been more in evidence, suggesting that Japanese competition is not now so effective. SANTONIN is up to Convention figures, with outside parcels now becoming negligible in quantity. Revisions in the scales of prices of some of the leading British Convention products are not unlikely in the near future, and they are not likely to be to still lower figures.

### Crude Drugs

Business in this market continues on a good scale and values, where they have not improved, have mostly been well maintained. AGAR is selling well on spot and in bond, and it should be noted current values are below replacement costs. The extremely limited offerings of Cape and Curaçao ALOES on spot and afloat are at firm figures, and shipment offers are rather difficult to obtain. Practically all BUCHU ovals have been cleared on spot. The shipment market for CASCARA SAGRADA is very firm and most of the limited offers are for 1934 peel. There has been a better inquiry for good white new crop CHAMOMILES. The famine at all sources of ERGOT is not easing at all, and the few lots moving this week have sold at high figures. SUDAN GUM ACACIA shows a further sharp advance and the position, spot and forward, is strong at the moment. Fair sales of MATTO GROSSO IPECACUANHA are reported. The minor boom in MENTHOL continues, with business fairly active. The latest cables from Japanese shippers are particularly strong. MERCURY has been in good demand for shipment to most destinations, particularly Scandinavian countries and Germany. TRAGACANTH is steady, with some grades moving satisfactorily. CARNAUBA WAX continues firm, and, with a shortage of supplies, prices quoted are still moving up.

### Essential Oils

A further improvement in business is recorded here and values are, with a few exceptions, steady to firm. ANISE (STAR) is dull on spot, but there is inquiry for shipment but little actual business. BERGAMOTI is again dearer for shipment and there seems to have been more business moving. Java and Ceylon CITRONELLAS remain slack and at low record prices. Madagascar CLOVE is rather firmer forward. The position of new crop LAVENDER is of interest. Japanese PEPPERMINT has been active most of the week and the tone continues firm. Spot and near positions are short in supply, while Japanese shippers' quotations right up to the opening months of 1936 are very strong. American PEPPERMINT has sold very well and in good quantities at rates covering a wide margin, as to brand. It is understood that some offers may refer to oil that is deficient in menthol content, being below the usual 50 per cent. Business in FIXED OILS has been on a good scale and values are well maintained. AMERICAN TURPENTINE has recovered. PALM, COTTON, GROUNDNUT and OLIVE oils are all fully steady to firm.

### Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	September 12	Value of the £
Amsterdam ...	Fl. to £	12.107	7.31	12/1
Berlin ...	Mks. to £	20.43	12.27½	12/0½
Brussels ...	Belgas to £	nominal	29.27	16/9
Copenhagen ...	Kr. to £	18.259	22.40	24/8
Lisbon ...	Esc. to £	110	109½	19/11½
Madrid ...	Ptas. to £	25.22½	30½	28/6
Milan ...	Lire to £	92.46	60½	13/1
Montreal ...	Dol. to £	4.86½	4.95½	20/4
New York ...	Dol. to £	nominal	4.94	20/3½
Oslo ...	Kr. to £	18.159	19.90½	21/11
Paris ...	Fr. to £	124.21	74½	12/1
Prague ...	Kr. to £	164.25	119	12/1
Stockholm ...	Kr. to £	18.159	19.39½	21/4
Warsaw ...	Zloty to £	43.38	26½	12/0½
Zurich ...	Fr. to £	25.2115	15.18	12/0½

Bank rate 2 per cent.

A drug auction will be held at the Commercial Sale Rooms, Mincing Lane, on Thursday next, September 19.

### Pharmaceutical Chemicals, etc.

THERE seems to have been a little more inquiry in the market this week. The general tone continues steady, with no change of importance to record. SANTONIN is fully steady and may experience a further advance.

AMIDOPYRIN.—Dealers report business quiet; quoted unchanged: crystals, five cwt., 18s. 0½d.; two cwt., 18s. 5½d.; less than two cwt., 18s. 10½d. per lb.; with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Steady inquiry, with values maintained: one cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. tins; and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN.—Makers' scale of prices maintained: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts: Over twelve months, minimum, one ton; over six months, less than one ton.

BARBITONE.—Occasional small spot business; market steady: spot, one cwt., 15s. 3½d.; 56 lb., 15s. 8d.; smaller parcels, up to 16s. per lb.

BENZONAPHTHOL.—Market remains dull. Spot quoted at about 3s. 2d. to 3s. 3d. per lb., as to quantity.

BENZOIC ACID (B.P.).—Fair business; values steady: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 2d. per lb., ex store, as to quantity.

BISMUTH SALTS.—This market is fully steady at makers' scales of prices. Carbonate, one cwt., 6s.; 28 lb., 6s. 3d.; 8 lb., 6s. 9d.; less than 8 lb., 8s. per lb.

BROMIDES.—A little more inquiry; quoted unchanged: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; small quantities, 2s. 5d. per lb.; potassium, B.P., crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium, B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., net, without engagement. Special prices for larger quantities.

CAFFEINE.—Continental makers' agreed prices: pure alkaloid, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb., delivered, 5-lb. tins free, smaller packing extra. Citrate, two cwt., 5s. 5½d.; one cwt., 5s. 6½d.; 56 lb., 5s. 7½d.; smaller quantities, 5s. 8½d. per lb., delivered. British material: pure, 56 lb., 8s. 4d.; less, 8s. 6d. per lb. Citrate, 56 lb., 5s. 9d.; less, 6s. per lb.

CALCIUM LACTATE.—Fair demand for limited quantities: spot, one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CARBOLIC ACID (B.P. CRYSTALS).—The scale of prices for deliveries to June 30, 1936, is as follows: Twenty tons, 7d.; ten tons, 7½d.; one ton, 7½d.; less than one ton, 7½d. per lb., in drums, carriage paid. Wholesale distributors' prices for small parcels would be dearer.

CHLORAL HYDRATE.—Makers' prices rule the home market: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 4½d. per lb.; 28-lb. jars one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Moderate business reported, with quotations unchanged: British material quoted at 11½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for this market for wholesale bulk quantities are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 9d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. PURE CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to re-sell any quantity at below the scale price for such quantity current at the time of re-sale. These scales of prices do not apply to export business, particulars of which may be obtained from the usual sources of supply. Export prices vary as to destination and are unchanged.

CREAM OF TARTAR.—Average business; quoted unchanged: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.



GLYCERIN (B.P.).—Makers notify an advance of £2 10s. per ton, as from September 1. The new scales are as follows:—

Contracts or Spot	Under 1 cwt.	1 cwt. and under 2½ cwt.	2½ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.	1 ton and under 5 tons
Minimum deliveries	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.	5 cwt.
Tins, 14 lb. ... ..	s. d. 82 6	s. d. 78 0	s. d. 77 0	s. d. 74 0	s. d. 73 0	s. d. 69 0
Tins, 28 lb. ... ..	79 6	75 6	74 6	71 6	70 6	66 6
Tins, 56 lb. ... ..	76 6	73 0	72 0	69 0	68 0	64 0
Drums, 1 cwt. (charged 20s.)	—	68 6	67 6	64 6	63 6	59 6
Drums, 2½ cwt. ( " 60s.)	—	—	65 6	62 6	61 6	57 6
Drums, 5 cwt. ( " 75s.)	—	—	—	62 0	61 0	57 0
Drums, 10 cwt. ( " 100s.)	—	—	—	—	60 6	56 6

Industrial white glycerin, 1.260 s.g., 2s. per cwt. less than chemically pure. Refined pale straw glycerin, 1.260 s.g., 5s. per cwt. less than chemically pure. Smaller deliveries, ex contracts, than as specified above charged extra.

GUAIACOL (CRYSTALS).—Prices unchanged for Continental material: 28-lb. jars, 10s. 0½d.; 14-lb. jars, 10s. 2½d.; 1-lb. bottles, 10s. 8½d. per lb., ex store. Liquid: 28-lb. demijohns, 9s. 6½d.; 14-lb. demijohns, 9s. 9½d.; 1-lb. bottles, 10s. 0½d. per lb., ex warehouse.

HEXAMINE.—Average business; keen prices being quoted: B.P. powder, from 1s. 3½d. to 1s. 4½d.; free-running crystals, from 1s. 7d. to 1s. 8½d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 7½d.; one cwt., 1s. 8d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

LACTIC ACID (B.P.).—Inquiry fair; keen quotations for bulk quantities: quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 9d. per lb., as to quantity.

MERCURIALS.—With metal values firm makers' prices for the salts are fully steady. Chloride, B.P., one cwt., 4s. 9d.; smaller quantities, from 4s. 10d. per lb.

METHYL SALICYLATE.—Rather more inquiry; makers' and dealers' quotations unchanged: spot, ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Market is steady but rather quiet: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

PARAFORMALDEHYDE.—Keen prices are being quoted for bulk quantities: 100 per cent. powder, quantities in kegs, 1s. 1½d. to 1s. 1½d.; smaller parcels, up to 1s. 6d. per lb.

PHENACETIN.—Continues at cheap figures, with business of small importance: crystals or powder, bulk quantities, 2s. 7d. to 2s. 9d.; smaller parcels, 2s. 9½d. to 3s. per lb.

PHENAZONE.—About steady, but the demand is slow: crystals, five cwt., 8s. 9½d.; two cwt., 9s. 0½d.; and less, about 9s. 3d. per lb.; with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Business quiet; market keen: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYL ETHYL BARBITURIC.—Average small spot business, with prices quoted about 26s. to 27s. 6d. per lb., in 2-lb. bottles, as to quantity.

PHOTOGRAPHIC CHEMICALS.—AMIDOL.—28 lb., 7s. 6d.; 14 lb., 8s. 3d.; 7 lb., 9s.; under 7 lb., 11s. 9d. per lb., in 1-lb. bottles. CHLORQUINOL.—1-lb. bottles, 21s. per lb. CRYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10½d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 0d.; 7 lb., 10s. 0d.; 3 lb., 11s. 6d.; 1-lb. bottles, 12s. 6d. per lb. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt.; 28 lb. for 6s. GOLD CHLORIDE.—15-grain tubes, 51s. 6d. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENOL HYDROCHLOR.—8s. 6d. per lb. POTASSIUM FERRICYANIDE.—14 lb., 2s. 3d.; 7 lb., 2s. 6d.; 1 lb., 2s. 9d. per lb. POTASSIUM METABISULPHITE.—1 cwt., 7½d.; 28 lb., 8d.; 14 lb., 9d.; 7 lb., 11d.; 1 lb., 1s. per lb. PYROGALLIC ACID.—28 lb., 6s. 9d.; 14 lb., 7s. 6d.; 7 lb., 8s. 3d.; under 7 lb., 8s. 9d. per lb. SODIUM CARBONATE (RECRYST.).—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBE, CRYST.—5 cwt., 16s. 3d.; 1 cwt., 18s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHIDE (PURE).—7 lb., 1s. 3d.; 1 lb., 1s. 6d. per lb.

QUININE SALTS.—Convention scales of prices continue steady; business about normal: sulphate, 2s. 1d.; bisulphate, 2s. 1d.; ethyl carbonate, 2s. 8½d.; salicylate, 2s. 9½d.; hydrochlor., 2s. 7½d.; bihydrochloride, 2s. 10½d.; hydrobromide, 2s. 7½d.; bihydrobromide, 2s. 10½d.; valerianate, 3s. 7d.; hypophosphite, 3s. 10½d.; alkaloid, 2s. 11d. per oz., carriage paid on bulk quantities; 100-oz. tins free; smaller packing extra.

RESORCIN.—British material only available: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. per lb.

SACCHARIN.—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Market steady at makers' prices; business limited: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 11d.; 4 lb., 2s. per lb.

SALOL.—Market remains dull: spot, crystals, two cwt., 3s. 6d.; one cwt., 3s. 6½d.; 56 lb., 3s. 7½d.; smaller parcels, up to 4s. per lb.; powder, 2d. per lb. extra.

SANTONIN.—Convention prices are now beginning to operate as the outside parcels are being cleared: not less than 50 kilos., £35 12s. 6d.; not less than 25 kilos., £36 1s.; not less than 10 kilos., £36 9s.; not less than 3 kilos., £36 17s.; not less than 1 kilo., £38 13s. 6d.; less than 1 kilo., £39 13s. 6d. Special prices are in operation for export to all markets.

SODIUM BENZOATE (B.P.).—Fair business on a competitive market: one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10d. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Limited spot demand, with the scale of prices unchanged: spot, one cwt., 15s. 9d.; 28 lb., 16s.; 14 lb., 16s. 3d.; 7 lb., 16s. 6d.; smaller parcels, up to 17s. per lb.

SODIUM SALICYLATE (B.P.).—Rather more inquiry; makers' prices unchanged: home trade, crystals or powder, five cwt., 1s. 8½d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

SULPHONAL.—Market is steady; business slow on spot: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7½d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Average demand; market steady: British makers quote at 1s. 0½d. per lb., less 5 per cent. discount. Dealers offering foreign material at competitive prices.

### Crude Drugs, etc.

AGAR.—There has again been a steady business in goods on spot and in bond; stocks are getting low and prices are firm; shipment offers are rather restricted and very steady: spot, Kobe No. 1, 3s. to 3s. 1d.; No. 2, 2s. 11d.; Yokohama No. 1, 2s. 11d. per lb.; shipment, Kobe No. 1, 2s. 9½d.; No. 2, 2s. 6½d.; Yokohama No. 1, 2s. 6½d. per lb., c.i.f.

ALOES.—In Cape some prime in small boxes near afloat are offering at 50s. per cwt.; shipment, boxes, 45s.; cases, 50s. per cwt., c.i.f., and but little offering. In Curaçao some blacks have sold up to 98s., but there are one or two lots at slightly less available at the moment: shipment is firm at 86s. to 87s. 6d. per cwt., and sparingly offered.

ANTIMONY.—Chinese crude is quoted dearer at £28 10s., c.i.f. English regulus is cheaper at £71 to £72, spot.

BALSAMS.—Market shows no change; business dull. *Tolu*, 1s. 5d.; *Canada*, 2s. 10d.; *Peru*, 5s. 3d. per lb., spot.

BELLADONNA.—Occasional spot inquiry. Dealers quoting small parcels of root at 57s. 6d. per cwt.

BUCHU.—This market is well maintained at former figures, due to short supplies. Ovals are practically cleared and nominal from 1s. 1d. A parcel may be available shortly. In rounds holders are asking from 1s. 3½d. for the best now available.

CAMPHOR.—Spot values continue steady; limited business: Japanese, spot, tablets, 2s. 4d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., ex store. English refined is still unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CANTHARIDES.—Some few small spot sales at former figures: Russian, about 6s. 9d.; Chinese, about 2s. 4½d. per lb., as to quantity, spot.

CASCARA SAGRADA.—Advice from the source states peeling has finished and there is very little available, with the price not less than 37s. 6d., c.i.f. Some 1934 peel is offered for shipment at about the same figure. On spot: 1934 peel, 40s. to 42s. 6d.; 1933 peel, 47s. 6d.; and 1932 peel, 52s. 6d. per cwt. Holders are taking a strong view of the position.

CHAMOMILES.—There has been a very fair inquiry for good white new crop flowers and prices now seem steady at about 140s. for first pickings and second pickings at about 130s. per cwt. Some yellow and brownish flowers will be available later on, probably in the region of 115s. per cwt., landed.

CLOVES.—Values are being steadily maintained, but business is rather quiet: Zanzibar, spot, 7½d.; shipment, September-October, 6½d. per lb., c.i.f. Madagascar, in bond, 6d.; shipment, September-October, 5½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended September 7 were 200, and the deliveries nil, leaving a stock of 2,966. From January 1 to date the landings of Zanzibar have been 2,746 and the deliveries 2,874. Landings of Madagascar for the week ended September 7 were nil, and the deliveries 343, leaving a stock of 1,355. From January 1 to date landings of Madagascar have been 3,001 and the deliveries 1,880 packages.

COCOA BUTTER.—Market continues steady: Prime English, 8½d. to 9½d. per lb. Foreign, 8½d. to 8½d. per lb., as to quantity.



**COCONUT (DESICCATED).**—Market is steady on the week; business limited: spot, fine, 22s. 6d.; medium, 22s. 6d. per cwt.; shipment, halves, September, 20s. 6d. per cwt., c.i.f.

**COD-LIVER OIL.**—Bergen reports the shipment market continues steady, with average business being done. Shipments to August 31, 1935, were 50,575 barrels, compared with 56,312 barrels at the end of August, 1934, and 57,140 barrels in August, 1933. Finest Lofoten steam-refined non-freezing medicinal oil, 91s. per barrel, c.i.f. London; spot, in small lots, 133s. per barrel, ex store, duty paid. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British non-freezing medicinal oil is now quoted at 110s. to 112s. 6d. per barrel, c.i.f. London, duty free, while quotations from another home source are at higher figures.

**COLCHICUM.**—Pending the arrival of new crop spot supplies are becoming short and now quoted at 45s. per cwt.

**DAMIANA LEAVES.**—Occasional spot demand, with dealers quoting round about 1s. per lb. for small parcels.

**DERRIS ROOT.**—This market has again been very slack; buying interest is lacking. Values, spot and forward, nominally unchanged.

**ERGOT.**—The position here is just as acute as reported previously. Inquiry continues brisk but there is almost a complete lack of supplies from any source. Prices have, of course, soared right up. A parcel of about 77 bags of Russian is on the way here, but the greater part of it has already been sold and the remainder is at present quoted firmly at 3s. 3d. per lb. One lot of Spanish is reported to have been booked at 4s. 3d., c.i.f., for September shipment, and cables advise nothing further to offer at present. No Spanish or Portuguese available on spot.

**GENTIAN.**—Some small business with French quoted at about 36s. and Italian at about 34s. per cwt., spot.

**GINGER.**—Prices are fully maintained, but the market has been mostly quiet: West African, spot, 34s.; for arrival, 32s. 6d. per cwt., c.i.f. Jamaican, spot, bold in barrels, 92s. 6d. to 100s.; small grinding, 67s. 6d. to 70s. per cwt., in bags, ex store.

**GUM ACACIA.**—The recent firmer tone recorded is being maintained and prices have advanced sharply. Advices from the source suggest a very strong position both up to November and for the new crop gum, but these reports are being read with reserve in some quarters: spot, Kordofan cleaned sorts, up to 50s.; bleached, No. 1, up to 90s.; extra, up to 100s. per cwt.; shipment, Kordofan cleaned sorts, 47s. per cwt., c.i.f.

**HENBANE.**—The spot values for small parcels continues at about 80s. per cwt., but business is slow.

**HONEY.**—A moderate inquiry continues, with spot values about maintained: Jamaican, pale, 37s. 6d.; dark manufacturing, 27s. 6d. per cwt. Californian, smooth white, 47s. 6d., spot; September shipment, 47s. 6d. per cwt., landed and duty paid.

**HYDRASIS.**—Not much doing here but values quoted are firm. Spot, 8s. 6d.; shipment, 8s. 3d. per lb., c.i.f.

**IPCACUANHA.**—Quite a nice business is reported again and values are fully steady: Matto Grosso, testing B.P., 4s. 10½d. to 5s. per cwt.; Minas, 4s. 3d. to 4s. 6d. per cwt., as to quantity, spot.

**LAVENDER FLOWERS.**—Dealers are offering finest French blue flowers at about 230s. per cwt., landed and duty paid.

**LIQUORICE ROOT.**—A little sale in decorticated with the prices from 35s. to 45s. per cwt. Natural root freely available at about £12 per ton.

**LYCOPodium.**—Stocks on spot are now at a very low level and holders are asking up to 4s. 3d. per kilo.

**MENTHOL.**—The demand for spot and bonded goods has continued fairly active and values show further appreciation. The forward market is also strong and business on a good scale. The quantity being put on the market for spot and near positions is very limited. K/S brands, spot, 12s. 6d. up to 12s. 9d.; in bond, 11s. 6d.; shipment, September-October, 11s. 4½d.; October-December, 11s. 3d. per lb., c.i.f. sellers. Japanese shippers are quoting at higher rates and maintaining a strong position: September-October, 11s. 9d.; October-December, 11s. 7½d. per lb., c.i.f.

**MERCURY.**—The Spanish-Italian group report their shipment quotation is fully steady and that business to most destinations continues on a very good scale. Quoted at 56 dollars per bottle, f.o.b. Continent; spot, in small lots, £11 6s. 6d. per bottle, ex store.

**OPTUM.**—A steady market, with a few spot sales reported: spot, 1s. 5d. to 1s. 5½d. per unit, landed and duty paid.

**PEPPER.**—A little more interest in the market this week. Lampong, 2½d., in bond; shipment, September-October, 2½d.; October-December, 2½d., c.i.f. Tellicherry, spot, 4½d.; shipment, September-October, 43s., c.i.f. Aleppy, spot, 4½d.; shipment, September-October, 41s. 6d., c.i.f. White Muntok, in bond, 4½d.; shipment, October-December, 4½d. per lb., c.i.f.

**PIMENTO.**—Values are held at the recent advance; market rather quiet: spot, 3½d. per lb.; shipment, August-September, 33s. per cwt., c.i.f.

**POPPY HEADS.**—Some new monster heads now arriving, quoted at 70s. per 1,000.

**RHUBARB.**—There has been a steady routine demand for round and flat Shensi, with old stock offering at 3s. 9d. to 4s. 3d. per lb. A few cases of Canton are available at 2s. 4½d. per lb. Rough round, all pinky, 1s. 4d.; two-thirds pinky, 1s. 3½d. per lb., spot. Ordinary rough round for shipment is firm at 1s. 0½d. per lb., c.i.f.

**RUBBER.**—Values show an improvement on the week; business has been restricted. Standard ribbed smoked sheet, spot, 5½d.; September, 5½d.; October, 5½d.; October-December, 5½d.; January-March, 5½d.; April-June, 5½d. per lb.

**SAFFRON.**—Small business; market steady: B.P., 1898, prime, 39s.; extra, 37s.; super, 36s. per lb., and less for bulk quantities.

**SARSAPARILLA.**—Limited spot business; quoted unchanged: spot, Jamaican grey, 1s. 4d. to 1s. 4½d.; native, mixed colours, 11d. to 1s. per lb., as to quantity, spot.

**SEEDS.**—ANISE.—Spot, duty paid, Spanish, 69s., and Bulgarian, 32s. 6d. CANARY.—Market remains firm: Mazagan, sold at 25s.; Spanish, 32s. 6d. to 37s. 6d., duty paid. CARAWAY.—Dutch, on spot, a little easier; 33s. 6d. now quoted, duty paid. CORIANDER.—Morocco, old crop, quoted at 18s. 6d., duty paid. New crop, for shipment, quoted at 16s., c.i.f., no sellers. CUMIN.—Malta, to arrive, quoted at 45s., spot. Morocco, 50s., duty paid. FENUGREEK.—Firm: Morocco, 15s., spot, duty paid. MUSTARD.—English, 23s. to 32s. per cwt., according to quality.

**SENEGA.**—The recent weakness in the spot market is not now in evidence, the cheap parcels then offering having been cleared. Spot and shipment is now at about 1s. 4½d. per lb., but little interest is being shown.

**SENNA.**—The shipment market for Tinnevely leaves continues firm, with America and also the Continent buyers of good quantities. Inquiry for spot goods from home buyers has not been of much account, but prices continue steady at former rates: No. 1 at 6d. to 6½d.; No. 2 at 4½d. to 4½d.; No. 3, 3d. to 3½d. per lb. for prime green new crop quality, with cheaper parcels of old crop leaves available. There has been some demand for good quality hand-picked Alexandrian pods, but buyers are finding difficulty in covering their requirements for really good sound bold pods. Fair supplies of No. 2 grade on offer at 2s. 6d. to 3s. per lb., with smallish green pods available at 1s. 3d. to 1s. 6d. per lb.

**SHELLAC.**—Values are being maintained at recent levels; market rather dull: spot, standard TN orange, 50s. to 55s.; fine orange, 80s. to 140s.; pure button, 80s. to 90s. per cwt., spot. For delivery, TN, October, 50s.; December, 51s. For arrival, TN, September-October, 54s. per cwt., c.i.f.

**SQUILL.**—Spot supplies are very scarce. New crop is not expected to arrive till October.

**STRAMONIUM.**—Dealers are quoting new crop leaves, shortly arriving, at about 50s. per cwt. for small parcels.

**TONQUIN BEANS.**—Spot supplies steadily quoted at 2s. 10½d. to 3s. per lb. for fair frosted Para beans.

**TRAGACANTH.**—There has been a moderate demand for the medium grades of whites, ranging from £19 to £23. per cwt.; supplies of these qualities are limited. Low textile grades have been inquired for and quoted at 70s. to 90s. per cwt.

**VALERIAN ROOT.**—The spot market is steadier at the lower price of 70s. per cwt. for small spot parcels.

**WAX.**—BEES'. Limited business; market steady. Abyssinian, spot, 107s. 6d.; shipment, 97s., c.i.f. Benguella, spot, 110s.; shipment, 97s., c.i.f. Conakry, spot, 110s.; shipment, 96s. 6d., c.i.f. Dar-es-Salaam, spot, 110s.; shipment, 103s., c.i.f. CARNAUBA: chalky grey, 175s.; shipment, October-November, 167s. 6d.; November-December, 165s.; January-February, 162s. 6d., c.i.f. Chalky grey, spot is very scarce and firm at 175s.; shipment, November-December, 162s. 6d., c.i.f. Primeira, yellow is very scarce on spot and firm, 230s.; shipment, November-December, 205s. per cwt., c.i.f. Mediana, spot, 210s.; shipment, November-December, 195s. per cwt., c.i.f.

### Essential Oils, etc.

BUSINESS in these products has been quite good as a whole and the general tone is steady. Bergamot is again firmer for shipment. Citronellas remain dull. New crop lavender prices from most sources are now available. Sicilian hand-pressed lemon has recovered and business has been better. African orange has been in some small demand on spot. Japanese peppermint continues firm and is again dearer for all positions. Wormseed is slightly cheaper and now fairly steady.

**ALMOND.**—Spot values are very steady; forward quotations for foreign tend rather dearer: English made, cwt. lots, 2s. 6d.; smaller parcels, up to 2s. 8d. per lb.; foreign, cwt. lots, 2s. 4d.; smaller parcels, up to 2s. 7d. per lb. French, bitter, 8s. 9d. per lb.

**ANISE (STAR).**—Spot market dull and quoted slightly cheaper. Shipment market is steady and unchanged, with good buying orders on the market at slightly less than quoted rates: spot, leads, 2s. 1½d.; tins, 2s.; drums, 1s. 11½d. per lb., ex store; shipment, leads, 1s. 10d.; tins, 1s. 7½d.; drums, 1s. 7d. per lb., c.i.f.

**BAY.**—Some small spot demand; market steady: 49 to 50 per cent., 5s. 1½d. to 5s. 4½d. per lb., as to quantity.



**BERGAMOT.**—The shipment market shows further appreciation, with offers, as to brand, from about 6s. 6d. for tins and 6s. 8d. per lb., c.i.f., for coppers, and there is more interest in the market. Spot business has also been more in evidence, with prices from 5s. 10½d. to 6s. 4½d. per lb., as to source and quantity.

**BOIS DE ROSE.**—There is little to comment on here; business slow. Brazilian, spot, 5s. 9d.; shipment, 5s. 6d. per lb., c.i.f. Cayenne, about 10s. 3d. per lb., c.i.f.

**CAJUPUT.**—This market is still dull and rather easy: B.P., 1s. 11d. to 2s. 1d. per lb., as to quantity.

**CANANGA.**—Shortage of supplies on spot continues, with holders requiring 13s. 6d. to 14s. per lb.; limited shipment quotations are in the region of 10s., c.i.f.

**CARAWAY.**—Shipment prices tend to firm up and fully support current landed prices: Dutch rectified, 9s. 6d.; crude, 9s., landed and duty paid.

**CASSIA.**—The spot market remains practically bare of supplies, with the value nominal at about 5s. 4½d. for cases. Shipment is steady at 3s. 10½d. per lb., c.i.f., with little interest shown, and there seems to be nothing much due for early arrival.

**CEDARWOOD.**—Market is steady; fair inquiry: American and African quoted competitively at about 1s. 1½d. to 1s. 2d. for drums and smaller packings up to 1s. 4½d. per lb., spot.

**CINNAMON LEAF.**—Not much inquiry; market steady: Ceylon oil, drums, 2s. 6d.; smaller packings, up to 2s. 8d. per lb., spot. The shipment market is well maintained at 2s. 2½d. per lb., c.i.f.

**CITRONELLA.**—This market is still neglected and quotations remain at very low figures: Ceylon, spot, drums, 1s. 0½d.; smaller parcels, about 1s. 3d.; shipment, drums, 10d. per lb., c.i.f. Java, spot, drums, 1s. 1½d.; smaller parcels, up to 1s. 4½d.; shipment, drums, about 1s. per lb., c.i.f.

**CLOVE.**—The shipment market is moving up and is firm. Fair inquiry on spot. Madagascar, spot, drums, 3s. 2d.; smaller packings, up to 3s. 6d. per lb.; shipment, 2s. 7d. per lb., c.i.f., in drums.

**EUCALYPTUS.**—Empire oil is quoted steadily; moderate inquiry: Australian, 70 to 75 per cent., 11d. to 1s.; 80 to 85 per cent., 1s. to 1s. 1d. per lb., landed; higher prices for small lots or spot. Spanish, 70 to 75 per cent., 1s. 2d. per lb., ex store.

**GERANIUM.**—There is little doing in this market at the moment. Shipment offers are being maintained and advices suggest firmer conditions in the future: Bourbon, spot, 22s.; shipment, 20s., c.i.f. Algerian, spot, 21s. 6d.; shipment, 19s. 9d. per lb., c.i.f.

**GINGERGRASS.**—Interest is limited to small spot inquiries. Spot, 5s. 4½d. to 5s. 6d.; shipment, 4s. 4½d. per lb., c.i.f.

**HO (SHIU).**—A fair business on spot, with prices keeping steady; quoted from 1s. 9d. to 2s. 1d. per lb., as to quantity and quality.

**JUNIPER BERRY.**—Average business, with prices varying as to quality. Standard grade, about 3s. 3d. up to 4s. 6d. per lb. for the finest quality, spot.

**LAVENDER.**—It seems that shippers are not anxious to sell new crop oil. Their quotations vary a good deal, with one source accepted as usually supplying the finest genuine Mt. Blanc, 38 to 40 per cent., quoting about 27s. 6d. per lb., landed. The price in the South of France for the same quality oil is, according to reports, much dearer and shippers are accordingly limiting their offers and not pressing for business. From other sources prices mentioned range from 32s. 6d. for 50 to 52 per cent., down to 18s. 6d. for 30 to 32 per cent., and these prices are liable to be withdrawn any moment. Lavandin also varies, as to source, with first quality ranging from 15s. to 17s. 6d. and second quality from 13s. 6d. to 15s. 6d. per lb., landed. So far there seems to have been but little business done on this market.

**LEMON.**—There has been a very fair revival of business in Sicilian hand-pressed and some sources indicate firmer shipment conditions, with the price ranging up to 6s. 3d. per lb., c.i.f. Other quotations at the moment are in the region of 6s., c.i.f. There has been a moderate spot demand and prices tend better at about 5s. 7½d. to 5s. 11d. per lb., as to source and quantity. The general tone is certainly better and further appreciations may take place. Californian is unchanged on spot: large drums, 3s. 0½d.; small drums, 3s. 1d. per lb.

**LEMONGRASS.**—There is a better tone here in the shipment market, with offers at about 1s. 11d. per lb., c.i.f. The spot value remains at about 2s. 4½d. per lb., with no interest shown.

**LIME.**—Market continues to receive some nice inquiries. West Indian distilled, spot, 24s., in small lots; shipment, about 22s. 6d. per lb., c.i.f.

**MANDARIN.**—There is an acute scarcity on spot and, despite the removal of the duty, any good quality oil is worth about 16s. 3d. to 16s. 6d. per lb. It has been found very difficult to get shipment offers, the source reporting there is practically nothing left of a quality worth exporting; price nominal at 14s. 9d., c.i.f.

**NEROLI.**—So far there has been little actual business or inquiry for new crop. Disappointment and surprise is expressed in many quarters on the failure of the application for free import.

**NETMEG.**—Average spot inquiry; market competitive. American and English oil, 5s. 1½d. to 5s. 4d. per lb., as to quantity.

**ORANGE.**—The only feature in this market has been a steady demand on spot for French Guinea oil, with the price for drums from 3s. and upwards and smaller packings up to 3s. 4½d. per lb. Sicilian sweet oil is neglected: spot, 10s. 6d.; shipment, 11s. per lb. Californian has received modest inquiry. Spot, one case, 2s. 6½d.; two or more cases, 2s. 4d.; drums, 2s. 3d. per lb.

**PALMAROSA.**—Rather easier conditions were recorded at first, but values have since partly recovered, closing steady; business dull. Spot, about 6s. 4½d.; shipment, 5s. 9d. per lb., c.i.f., for quantities.

**PATCHOULI.**—A fair inquiry this week, with Seychelles oil of interest; quoted for shipment at 6s. 7½d. per lb., c.i.f. Singapore oil, spot, about 10s. 6d. per lb.

**PEPPERMINT.**—The spot market has continued to receive a steady inquiry, and at the close the market was firm, with business up to 5s. 3d. and some holders wanting more. Earlier in the week, due to market operations, some weakness was noted, with a seller of October-December at 4s. 3d., but this was quickly withdrawn and put up to 4s. 6d. The following business has been recorded: August-September, 4s. 9d.; September-October, 4s. 7½d. Japanese shippers are quoting: September-October, up to 5s., and October-December, up to 4s. 11d. per lb., c.i.f. A bid cabled out of 4s. 1d. for January-February shipment was countered by an offer at 4s. 8d. per lb., c.i.f. Values for American natural oil have been falling gradually for some weeks, and at current low figures quite a big business is reported. In some instances there is a doubt as to the menthol content and buyers might well stipulate a minimum percentage, usually 50 per cent. menthol, 2 dollars 10 cents per lb., c.i.f., in drums, and other brands are from about 1 dollar 95 cents. Oil of low menthol content at various figures. There is a tendency for prices to recover.

**PEITGRAIN.**—The position is unchanged, with business on a small scale. Spot, 4s. 1d. to 4s. 3d.; shipment, about 3s. 6d. per lb., c.i.f.

**ROSEMARY.**—Business has been fairly good and values are firmer. Shipment, first quality oil, 2s. 3d.; second quality, from 1s. 9d. per lb., c.i.f.

**SANDALWOOD.**—Genuine East Indian Mysore, 19s. per lb., in one-case lots, on spot; isolated cheaper offers noted. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10½d.; 14 lb., 7s. per lb. Australian, case lots, 15s. 3d. per lb.

**SASSAFRAS.**—Dealers have been doing a little spot business, with average prices for natural oil about 4s. to 4s. 3d. per lb. Artificial oil at cheaper prices.

**SPEARMINT.**—Market is steady but business is quiet. Spot, about 9s.; shipment, about 8s. 3d. per lb., c.i.f.

**SPIKE.**—A limited amount of inquiry for Spanish new crop oil with the price quoted for a good quality oil about 4s. 7½d. and upwards per lb., landed.

**WORMSEED.**—Market is dull and the removal of import duty has now been fully discounted on spot at about 8s. 6d., and shipment is at 8s. per lb., c.i.f.

### Fixed Oils, etc.

BUSINESS in these products has been fairly satisfactory and the general tone is steady. Cotton, groundnut, olive and palm oils are firm. American turpentine shows a recovery, closing firm. Linseed oil is firm but rather quiet at the close. **ACID OILS.**—Fair business; market steady: coconut and/or palm kernel, nominal; groundnut, 18s. 7½d.; soya, 17s. 3d., spot. **CASTOR.**—Very fair business is reported, with prices steady at the recent advance: pharmaceutical, 44s.; first pressings, 39s.; second pressings, 36s. (barrels); cases, £4 per ton extra, ex mills, Hull, in not less than one-ton lots; Bombay, 30s. 6d. (drums), c.i.f. **COCONUT.**—Business on a good scale; values keeping steady: deodorised, 28s. 3d. (barrels), spot; Ceylon, 19s. 3d. (drums), c.i.f. **COTTON.**—Market is fairly steady and business has been well up to average: deodorised, 33s. 3d.; common edible, 31s. 3d.; soapmaking, 27s. 9d.; crude, 27s. 3d. (barrels), spot. **GROUNDNUT.**—Fair business with values about steady: deodorised, 31s. 6d. (barrels), spot; crude Oriental, 29s. 6d. (drums), c.i.f. **LINSEED (RAW, NAKED).** Market is fully steady but rather quieter at the close: spot, 25s. for small quantities; September, 22s. 6d.; October-December, 22s. 7½d.; January-April, 22s. 9d. Boiled oil, spot, 26s. 9d. **OLIVE.**—More inquiry and the market tends to be firmer: edible, in tins in cases, 72s. 6d. per case of ten gallons; B.P., 5s. 3d. per gallon, in 40-gallon barrels. **PALM.**—Fairly active business has been recorded and at the higher figures values are quite steady: Lagos, 18s. 10½d., shipment; softs, 18s. 7½d., shipment; medium, 18s. 9d., shipment; hards, 18s. 9d., shipment; bleached, 22s. 1½d., spot. **PALM KERNEL.**—Market steady, with rather more inquiry: deodorised, 25s. 6d.; crude, 21s. 3d., spot (barrels). **RAPE.**—Market fully steady; business better: refined, 35s.; crude, 32s. 6d. (barrels). **RESIN.**—Market has remained mostly dull: B, 11s.; D, 11s. 4½d.; F/G, 11s. 10½d.; N, 13s. 1½d.; W/G, 13s. 6d.; W/W, 14s. 3d. per cwt., ex wharf. **SOYA.**—About average business, with prices keeping steady: deodorised, 31s. 3d.; crude, 29s. 3d., spot. **TURPENTINE, AMERICAN.**—Market is firm at the better values. Total London stocks, 4,650 barrels. On spot, 46s. 9d. **WOOD.**—Market continues firm at high figures. Hankow, in barrels, spot, 83s. 6d.; October, 82s. 6d. per cwt.



# Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## The Giving of Notice in Scotland

SIR,—I have noticed from time to time in your paper replies under "Legal Queries" to the effect that the notice required to be given by an employer in the trade to his employee is one month. That may be the law in England but it is not so in Scotland, and, as many of your readers carry on business in Scotland, the law of that country in relation to the termination of the contract of employment between a chemist and his employee is of very practical interest. Particularly is this so as it seems to be different from the law prevailing in England. In dealing with this matter I deal only with the employee who is not an indentured apprentice and to whom special considerations apply. In Scotland a contract of personal service is terminable at pleasure by either of the parties to it upon giving the other party notice of his intention to do so. What is the proper notice by the one is the same for the other. If a special contract as to notice has been made that, of course, will apply. For instance, it might be specially contracted between the parties that the notice should be in writing or that the notice should be of specified length. If these requisites are laid down in the special contract they must be followed to properly terminate the contract. If there is no such special agreement, the law of Scotland will imply a term of notice. The notice need not be in writing, though, if there is a possibility of dispute, it is advisable that it should be either in writing or at least given in such circumstances that it can be proved. The term of notice implied in Scotland is expressed in the rule that it must be reasonable, and, speaking generally, a good test is the way in which wages are paid. If paid weekly, reasonable notice would no doubt be one week; if fortnightly, a fortnight, and so on. In England there seems to be a custom of giving one month's notice. If there was such a custom in Scotland the law there would imply that that, recognised and acted upon invariably, was the notice to be implied. From inquiry, however, there is no such invariable custom as to notice, and accordingly, it would be misleading to say that in Scotland one month's notice terminates the contract. A week's notice in certain circumstances may, and very often will, be sufficient notice as being "reasonable." Each case really depends on its own circumstances.—Yours faithfully,

THOMAS YOUNG,

J. Miller Thompson & Co.,

Solicitors to the Scottish Pharmaceutical Federation.  
Edinburgh.

## The Business of a Grocer

SIR,—I read with great interest your editorial "The Grocers' 'Grouse'" (*C. & D.*, September 7, p. 303). Some of the articles sold by grocers in this district include, in addition to ordinary grocers' articles, butchers' meat, fresh fish, cooked meats, confectionery, cigarettes, fowls, ironmongery goods, patent medicines, fresh fruits and vegetables. Now if the above are regular grocers' lines, then obviously we should class as grocers, butchers, ironmongers, greengrocers, tobacconists, confectioners, fish shops and so forth. Therefore, if grocers are to have the right to sell certain poisons, the same right should be extended to all the above trades—which is absurd.—Yours faithfully,

CHEMIST (7/9).

## The Dispensing Department

SIR,—"Screened," in the *C. & D.*, September 7, p. 312, implies that the adoption of a visible dispensary would take away the professional or private aspect of dispensing and remove a business asset. I do not see why it should do so here any more than it does in Continental countries, where the dispensing is frequently done in full view of the customer, and indeed in many cases, owing to the absence of high window enclosures, in view of the passer-by. I can remember watching with interest a pharmacist making a batch of pills in a

Freiburg pharmacy, and one pharmacy I noted in Holland had a grille on the front counter behind which the dispenser worked. It seems to me that an occasional sight of the pharmacist at work would help to educate the public to some idea of the skill and technique required to dispense medicines, because to judge by remarks of customers when told how long a prescription will take to dispense, the common idea seems to be that all bottles are filled up from stock or that a concentrated form is used and completed from the tap, an idea probably derived from glimpses of procedure in a surgery. Comparatively few people seem to know that in the pharmacy most medicines are compounded extemporaneously. While there are some persons who would become nervous about taking a medicine if they saw the dispenser using a bottle labelled poison, the dispensary could be so arranged that this was avoided, at the same time allowing sufficient of the work to be done in sight of the customers to impress them with the fact that dispensing is not merely slopping a few liquids into a bottle.

Yours faithfully,

ON VIEW (7/98).

## The B.M.A. and Chemists

SIR,—In the course of the last twelve months I have read some most unfair (and of course unchallenged) statements in the daily Press reflecting on chemists. But I do not think any one of these has filled me with such disgust as the announcement that the British Medical Association had applied, for the protection of panel patients, to get the application of food and drugs tests applied to dangerous drugs (*C. & D.*, August 31, p. 265). This, from fellow contractors, who are "doing well" at the business—in many cases competing with the chemist professionally, with special allowances, bonuses, freed from inspections, and so forth. A law unto themselves! While the chemist gets a monetary return of threepence on each mixture, which in country districts may have to be packed for post, and the bottles on loan as well, the doctor gets his full money. An appeal to the Pharmaceutical Society, and, possibly, also to the National Pharmaceutical Union, is waste of time. Are chemists, the representatives of an old and still honoured calling, going to stick this latest stab in the back without a word of remonstrance? The Society, the Council with its "multiple" interests, the Union, will sit on the fence until chemists decide to form a body which will really represent them, demand fair play and fair pay for the work performed, and get it. Business methods for chemists? The panel from the chemists' point of view may be ruled out. It is a sacrifice, not a paying proposition. The Pharmacy and Poisons Act is bad enough without backbiting.

PANEL CHEMIST (6/98).

## Prescribing from a Formulary

SIR,—There appears to be an increasing tendency on the part of prescribers to make additions to Formulary mixtures. A similar prescription to that of P.S.H. (*C. & D.*, September 7, p. 313) is one which orders syr. glycerophosph. co. with mist. pot. brom. N.F., and other instances are afforded by prescribing two or three Formulary mixtures together; for instance, mist. bismuthi, and mist. gent. alk. or mist. pot. iod. with mist. lobel. co., and I have had scripts ordering equal parts of three Formulary mixtures. Another prescription ordered mist. ferri aper. before meals and mist. bismuth. sed. after, and there seem to be few prescriptions for these mixtures which have not had some addition made to them, in spite of the advice that they are devised to be prescribed as they stand. If a prescriber wishes to depart from the Formulary it would seem to be better to write out a complete prescription to suit the requirements of the case, but the probability is that comparatively few doctors of the present day could do this; in fact, the method of prescribing seems to run in three distinct grooves, Formulary scripts, proprietaries, or a few memorised formulas, originally learned during hospital practice. At the other end of the scale



to the blunderbuss prescription is the one which orders mist. pot. brom.  $\mathfrak{z}\text{ij}$ ., aq. ad  $\mathfrak{z}\text{viij}$ . One can only conclude that the prescriber had homeopathic tendencies or else had in mind the concentrated mixture favoured in surgeries. The mention of colour change reminds one of mist. phenazon. co., which used to be brought back because of its chameleon-like habit of turning light and dark brown and finally black. In the last issue of the Insurance Formulary this trouble was eliminated by the addition of liq. sacch. ust., thus deciding the colour from the start.—Yours faithfully,

HIT OR MISS (9/7).

## Dispensing Notes

### A "Ropy" Growth

SIR,—I am experiencing difficulty with the keeping properties of the following mixture:—

Liq. morph. hyd.	...	...	...	$\mathfrak{M}\text{LXXV}$ .
Syr. zingib.	...	...	...	$\mathfrak{z}\text{ij}$ .
Tinct. capsici	...	...	...	$\mathfrak{M}\text{XLV}$ .
Glycerin.	...	...	...	$\mathfrak{z}\text{ij}$ .
Inf. gent. co.	...	...	...	$\mathfrak{z}\text{iv}$ .

The patient complains that after a day or two it becomes ropy and even sour.—Yours faithfully,

E. D. O. (16/7).

[We can see no reason for the bad keeping properties of this mixture except the very usual ones: diluted syrups ferment and diluted infusions keep only a week, even less, in hot weather. In the present mixture the syrup. zingib. is the great offender, and you should sterilise this when freshly made. It is subject to much contamination from the air when kept for months in the usual syrup bottle. The patient should be told that this medicine is not expected to keep for more than a week. In addition to using sterile syrup. zingiberis and sterile inf. gent. co., it is reasonable, if the patient wishes to keep the mixture for other than immediate use (or use aq. chloroform to dilute the inf. gent. co. conc.) to make it of the strength of aq. chloroform by the addition of chloroform dissolved in the Tr. capsici.]

### Clear or Cloudy?

SIR,—Finding from the B.P.C. that calcium gluconate was freely soluble I dispensed a clear solution for the following prescription:—

Calcium gluconate	...	...	...	gr. 15
Syr. simp.	...	...	...	$\mathfrak{M}\text{30}$
Aqua chlorof.	...	...	...	to $\mathfrak{z}\text{ss}$ .

Send 20 oz.

The customer returned the mixture stating that the mixture was usually milky with a thick deposit. Which was correct?

Yours, etc.,

R. G. (2/7).

[A proprietary brand of calcium gluconate is not so soluble as the B.P.C. substance and usually produces a milky mixture. Until comparatively recently the former was the only calc. gluconate available, but the official or semi-official substance is now obviously the only one to dispense, and this is, as the B.P.C. states, freely soluble. You should convince your customer, and, at the same time, perhaps, exonerate your brother pharmacist, by explaining that the perfecting of manufacture has made possible a clear solution.]

### The Cause of an Explosion

SIR,—Our customer returned the day following that on which the undermentioned mixture was dispensed, complaining that it had exploded and burst the bottle. Can this be explained?

Cascara evacuant	...	...	...	$\mathfrak{M}\text{v}$ .
Ammon. bromid.	...	...	...	gr. v.
Inf. gent. Co.	...	...	...	ad $\mathfrak{z}\text{ss}$ .

Yours truly,

A. C. (17/8).

[Cascara evacuant being a proprietary medicine we do not know its exact formula. It is, however, slightly alkaline in reaction, and could hardly have any action, therefore, on ammon. bromid. We have dispensed similar mixtures without getting an explosion. Violent reaction such as you have men-

tioned is the result of evolution of  $\text{CO}_2$  in excess of its solubility in water or to some similar reaction. There is no possibility of such a thing in the present mixture. Much compound infusion of gentian sold contains no alcohol or preservative, and therefore keeps for a short time only. Fresh infusions placed in perfectly clean bottles keep for three or four days at most. Your trouble must therefore be due entirely to fermentation of the infusion. If you use concentrated infusion we should advise that you make the mixture up with chloroform water, informing the doctor. Such a mixture as this is probably kept by the patient for weeks and used when necessary; the small amount of chloroform becomes a legitimate addition. (The makers of cascara evacuant state that there is no incompatibility with ammon. bromid.)]

### Specks in Mixture

SIR,—With reference to the black specks in a mixture (C. & D., September 7, p. 313), "A. T. R." suggests that this is due to potassium bromide in a saccharine solution producing a mould. I have noticed that a stock solution of potassium bromide, 1 in 4 of distilled water, when not used up fairly quickly, leaves black specks adhering to the sides of the bottle, so that they can be attributed to the bromide alone without any further addition of syrup or other ingredient.

Yours faithfully,

KALINIG (7/9).

## Legal Queries

M. E. C. (23/86).—It will be necessary for you to form a limited company and to have a qualified chemist as one of the directors if you intend carrying on the business of chemist. The qualified person must be registered at 17 Bloomsbury Square, London, W.C.1, and his or her certificate of qualification must be exhibited in the shop.

W. R. (2/7).—It is usual for the copy of the lease that is signed by the landlord and held by the tenant (which is the original lease) to be stamped with the *ad valorem* duty. The other copy, which is signed by the tenant and held by the landlord (which is called the "Counterpart"), is impressed with the nominal stamp duty of 5s. [Corrected note.]

## Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

### Simplified Prescribing

It was my good fortune to serve as an assistant in a well-known pharmacy where we did the dispensing for a medical man whose methods were of the simplest and whose successful cures reached a high percentage. He had nine stock mixtures; and by ringing the changes on these and occasionally adding a small quantity of some galenical to one of them, he acquired a reputation which lived after him. It is perhaps a good thing for pharmacy, on the whole, that medical men to-day are not so simple in their prescribing.—Country Chemist (6/9).

### Christmas Shopping

Every year, in common with thousands of other manufacturers and retailers, we suffer from the intense congestion of Christmas shopping. The sales of non-food merchandise in twelve days before Christmas exceed the average monthly sales for the rest of the year. By its delaying effect on deliveries, the resultant transport hold-up prevents supplies from meeting demand. In other words, if the public could be induced to spread its Christmas shopping over a month instead of a fortnight, not only would traders and the public itself greatly benefit, but there would be a bigger demand for the products of many of our factories and therefore more employment. The congested situation might perhaps further be helped if trading organisations were to agree to encourage the public to shop early by offering, for example, some inducement in connection with Christmas purchases made before a specified day in December.—F. Hornby, M.P., House of Commons, S.W.1.

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

A. S. (France) (16/88).—**EAR PLUGS.**—Many forms of wax, resin, fats, and so forth have been tried but results have not been altogether satisfactory. The best plug was made from glycerin of starch with several times its weight of kaolin worked into it to form a firm pill mass. This can be plugged into the ear and holds fairly well. Absorbent cotton may be used as an adhesive, but is not essential. One of the air lines issues to passengers a pledget of absorbent cotton wool, but a rubber plug is still considered the most satisfactory means of shutting out the noise.

C. A. S. (Holland) (28/88).—**MYROBALANS.**—This drug was official in the British Pharmacopoeia, 1914, where it is described as follows:—"Myrobalans are the dried immature fruits of *Terminalia Chebula*, Retz., usually distinguished in commerce as Chebulic myrobalans. *Characters.*—Irregularly ovoid or fusiform, from ten to thirty millimetres or more long and from five to fifteen millimetres wide; strongly shrivelled longitudinally, dark brown or nearly black; in transverse section dark, with a small central cavity; hard. No odour; taste very astringent." The dose was given as from 2 to 4 gm. Its principal use, however, was in two astringent ointments. The drug is no longer official, but at least five kinds have been known in medicine since the thirteenth century.

T. T. H. (6/98).—**MACLEAN'S POWDER.**—The alkaline treatment of peptic ulceration was described by Sippy in 1915 and elaborated by Mr. Hugh MacLean, M.D., D.Sc., F.R.C.P., Professor of Medicine, University of London, St. Thomas's Hospital. Strictly speaking, there is no original formula for Professor MacLean's powder, since the ingredients are varied according to the needs of the patient. Should you care to consult original papers by Professor MacLean, they were published in the "British Medical Journal," April 14, 1928, and the "Lancet," January 7, 1928.

C. S. (4/98).—**SEALING WAX.**—As you note, sealing wax is not easy to make. That for sealing deeds should not be so hard as parcel or letter wax. It becomes soft when held in the hand for some time, so that impressions could be made on it. The standard formulas for such a wax are as follows:—

(1) Resin	...	...	...	...	6
Turpentine	...	...	...	...	3½
Tallow	...	...	...	...	3
Whiting	...	...	...	...	4
Red Lead	...	...	...	...	3-4
(2) White wax	...	...	...	...	5
Turpentine	...	...	...	...	1½
Cinnabar	...	...	...	...	1
Glycerin	...	...	...	...	½
(3) Colophony	...	...	...	...	3
Tallow	...	...	...	...	1½
Turpentine	...	...	...	...	3
Chalk	...	...	...	...	4
Red Lead	...	...	...	...	4

For green colouring, use Berlin blue 1½ parts and chrome yellow 1½ parts.

We have mixed your preparation with different amounts of shellac, carnauba wax, and cobbler's wax, but cannot get a good product. The way of mixing is important. The secret of making a good sealing wax is to have all the materials bone dry to begin with. There are many varieties of pitch. Colophony is also called rosin pitch, and Burgundy pitch is not pitch at all. Of all the natural and artificial pitches, there is no Swedish mentioned in the dictionaries. Pure asphaltum is used for making black varnishes and japans. Coal tar pitch is either soft, medium, hard or normal. These soften at 40° C., 60° C. and 80° C. respectively, and melt at 60° C., 80° C. and 120° C. Your materials would probably mix by mechanical means with little heat. The black deposit could easily arise by over-heating. All sealing-wax should be melted at the lowest temperature possible. In the circumstances, we advise you to use a paraffin wax of lower melting point, and having melted it and the beeswax together, mix the cobbler's wax by mechanical means in a hot iron mortar or other suitable apparatus.

M. L. (6/98).—**RED ROSE GARGLE.**—Such preparations usually contain acid infusion of roses, and we think either of the following formulas will meet your requirements:—

I					
Glyc. alum	...	...	...	...	℥lxxvj.
Inf. rosæ acid.	...	...	...	ad	5j.
II					
Tr. myrrh	...	...	...	...	℥lxxiv.
Mel. purif.	...	...	...	...	gr. xxiv.
Inf. rosæ acid.	...	...	...	ad	5j.

F. & W. (Germany) (6/98).—**ANTISEPTIC SOLUTION.**—A mouth-wash such as you require could be prepared according to the following formula:—

Thymol	...	...	...	...	5ij.
Ac. benzoic	...	...	...	...	5vj.
Eucalyptol	...	...	...	...	5ss.
Ol. gaultheria	...	...	...	...	℥lxx.
Menthol	...	...	...	...	5j.
Alcohol 90 per cent.	...	...	...	...	5xx.
Sod. bibor.	...	...	...	...	...
Ac. boric	...	...	...	aa.	5j.
Aq.	...	...	...	ad	5c.

Stand for a few days, then filter through talc.

D. M. O. (3/98).—**ZINC CREAM.**—The formula for zinc cream (St. Bartholomew's Hospital) is as follows:—

Zinc oxide	...	...	...	...	15
Hydrous wool fat	...	...	...	...	5
Olive oil	...	...	...	...	40
Lime water	...	...	...	...	to 100

J. D. S. (3/98).—**BRONCHIAL EMULSION.**—The following formula for nursery cough emulsion is given in Pharmaceutical Formulas, Vol. I, p. 779:—

Pulv. sacch. alb.	...	...	...	...	5iv.
Pulv. tragacanthæ	...	...	...	...	5ss.
Pulv. acaciæ	...	...	...	...	5iss.
Tr. camph. co.	...	...	...	...	5vj.
Vin. ipecac.	...	...	...	...	5vj.
Oxymel. scille	...	...	...	...	5j.
Aquam	...	...	...	ad	5iv.

J. R. B. (2/98).—**GAS MASKS.**—The best general information obtainable at the moment regarding gas masks is contained in Handbook No. 2 of the Air Raid Precautions Department of the Home Office, published at 6d., through any bookseller. This handbook, as we pointed out in our issue of August 10, contains illustrations of gas masks and other appliances. On June 12, Mr. J. Davidson Pratt, general manager of the Association of Chemical Manufacturers, lectured to the British Science Guild on "Gas Defence." Reprints of this lecture may be obtained, price 1s. each, from the Guild, 6 John Street, Adelphi, W.C.2.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," September 15, 1885

### The Professional Element

If pharmacy is a professional pursuit it should be remunerated on the basis of a professional fee. Now I do not want to put too fine a point on this. I know too well—which of us does not?—that intrinsic value is a very important factor in the details of our business. . . . Still I insist that intrinsic value, although very important, is not the most important factor in this matter, and that in all dispensing proper and throughout a great part of the other parts of our avocation, the professional fee is the standard of value. . . . Yes, I think it must be admitted that throughout all our dispensing transactions, and many more which are cognate thereto, the professional fee is the true basis of value for our services. But then comes the question of how to apply this principle. [From Mr. J. B. Stephenson's presidential address at the British Pharmaceutical Conference.]



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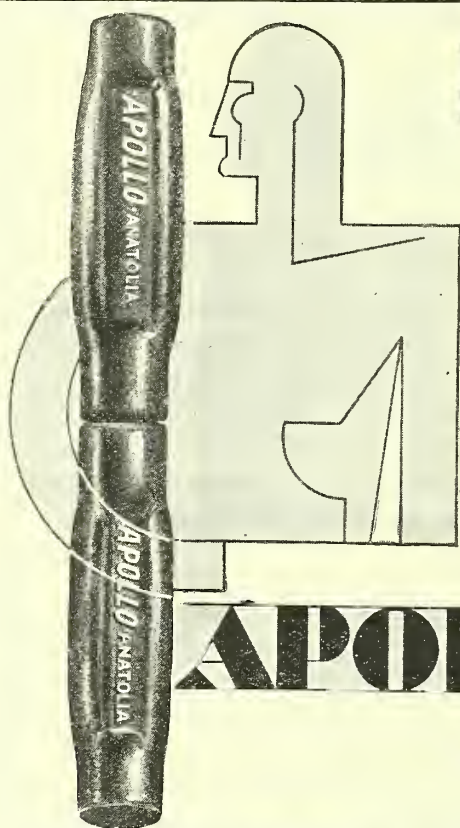
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"APOLLO" brand is the concentrated extract of carefully selected licorice root grown on the fertile plains of Anatolia. It is manufactured in the district where the root is cultivated.

It contains an unusually high percentage of glycyrrhizin, thereby enhancing its pharmaceutical value.

It is made under hygienic conditions. It is smooth to the tongue and free from grit and other impurities.

It will not get sticky or lose its shape under any conditions of climate.

An article of this high grade will do credit to the chemist who stocks it.

Packed with bay leaves in 4-lb. cartons, 28 in a case. No charge for bay leaves or packing.

Stocked by the leading Wholesale Houses, or if unobtainable write to:

**MACANDREWS & FORBES, Ltd.**, Bush House, Aldwych, London, W.C.2

*Established 1857*

Tel. Address: "Macforbes, Strand, London."

Tel. No.: Temple Bar 5392  
(Private Branch Exchange)

## BEWARE OF IMITATIONS

Don't forget

The original Glucose Barley Sugar base products with or without Medicated content—as they are known to-day—were pioneered by

# Simpkin's

Carry Simpkin's stocks and be insured for:

- (a) Successful sales
- (b) No dead stock, and
- (c) Useful addition to your income.

We cannot claim many additional customers during the last year, as we already supply 80% of the qualified chemists exclusively. Thus the increasing demand is almost entirely due to increasing sales in the individual shops.

**MANUFACTURED UNDER SUPERVISION OF QUALIFIED CHEMISTS**

Pharmaceutical Superintendent:  
WILLIAM J. SEWELL, M.P.S., A. L. SIMPKIN & CO., LTD., Barley Sugar Works, Sheffield 6.

# BURNSIDE'S

## AUSTRALIAN EUCALYPTUS OIL

(Shipped by W. K. BURNSIDE PTY., LTD., 34/36 JEFFCOTT STREET, MELBOURNE)

**ALL B.P. GRADES**

70/75% B.P.  
A specially rectified Oil of  
high and very uniform Quality

Packed in Cases and Drums

STOCKS IN LONDON

80/85% B.P.  
Distilled from E. POLYBRACHTEA  
The finest B.P. Oil obtainable

All Grades can be relied upon to be Constant in Quality, Odour and Colour

15 PHILPOT LANE  
LONDON, E.C.3

AGENTS FOR U.K.  
**WILSON & MANSFIELD, Ltd.**

WHOLESALE ONLY

'Phone: MANSION HOUSE 9264-5-6  
'Grams: WYFIELD, LONDON





For local application in  
**LEUCORRHOEA**  
particularly the type due  
to *Trichomonas Vaginalis*  
In Tins of 15, 30 and 150 tablets

'Devegán' tablets consist of 4-oxy-3-acetyl-amino-phenyl arsinic acid and boric acid, with carbohydrate hydrolysed by a special process as vehicle.

**BAYER PRODUCTS LIMITED**

**AFRICA HOUSE,  
KINGSWAY,  
LONDON, W.C.2**



Of recent introduction, 'Devegán' has stepped into the front rank of 'BAYER' Pharmaceutical products.

During September, intensive press and mailing campaigns to the entire medical profession will further stimulate the demand.

May we remind you to prepare for the immediate requirements of your local practitioners?

**'BAYER'  
FINE  
CHEMICALS**

ACETYL SAL. ACID  
AMIDOPYRIN  
BARBITONE  
HEXAMINE  
METHYL SALICYLATE  
METHYL SULPHONAL

PHENACETIN  
PHENAZONE  
RESORCIN  
SALOL  
SODIUM SALICYLATE  
SULPHONAL

**BAYER PRODUCTS LTD., AFRICA HOUSE, KINGSWAY, LONDON, W.C.2.**

# RICHTER THYROIDEUM

"B.P. 1932"

Manufactured in accordance with the **BRITISH PHARMACOPŒIA**  
and conforming to its requirements.

Special Quotations for Important Quantities

Samples gladly sent from :—

**GEDEON RICHTER (Gt. Britain) LTD.**

1-2 HARDWICK STREET, E.C. 1

CLERKENWELL 9521/2

**W.B. DICK & CO. LTD.**



BY APPOINTMENT TO H.M. THE KING

**PARAFFINUM LIQUIDUM B.P.**  
ALL SPECIFIC GRAVITIES GUARANTEED TO REMAIN BRIGHT AT 0°C

**B.P. WHITE & YELLOW PETROLEUM JELLIES**

**WHITE AND HALF WHITE OILS**

SEND FOR SAMPLES AND QUOTATIONS (WHOLESALE ONLY)

26 GROSVENOR GARDENS, LONDON, S.W.1  
Telephone - - - - - Sloane 3461 (7 lines)  
Telegrams - - - - - "Dicotto, Phone, London."  
GLASGOW, LIVERPOOL, NEWCASTLE,  
CARDIFF AND NEW YORK.



**MOTHER SEIGELS**

BRAND

**DIGESTIVE SYRUP****OPERATING PILLS**

NOW AVAILABLE

**UNSTAMPED**

FOR SALE BY QUALIFIED PHARMACISTS

**REVISED TRADE PRICES**

MOTHER SEIGELS BRAND DIGESTIVE SYRUP UNSTAMPED	(1/3)	11/3	Doz.
" " " " " STAMPED	(3/-)	27/-	"
" " DIGESTIVE SYRUP " STAMPED	(1/3)	12/9	"
" " " " " STAMPED	(3/-)	30/-	"
" " BRAND OPERATING PILLS UNSTAMPED	(1/3)	11/3	"
" " OPERATING PILLS STAMPED	(1/3)	12/9	"

OTHER PRODUCTS (TABLETS, PLASTERS, OINTMENT, MALT COUGH BALSAM)  
ONLY ISSUED **STAMPED**—AND PRICES REMAIN UNCHANGED

Special Advertising Offer on retail orders to the minimum value of £2 10 0 nett

Particulars on request from

Telegrams :  
" Nocentis-Smith London "

**A. J. WHITE LTD.**  
64 HATTON GARDEN, LONDON, E.C.1

Telephone :  
Holborn 9577/8

**10%**  
**EXTRA**  
**PROFIT**

OVER AND ABOVE  
THE USUAL DISCOUNTS

This is the average extra profit,  
consequent upon de-stamping,  
provided for you by the new

**Licoricine**  
ACTS LIKE MAGIC  
BRAND

PRICE LIST

Obtain details from your Wholesaler.

RETAIL PRICES REMAIN UNCHANGED

ISSUED BY

**MANDALL & CO., LTD.**  
TOWER WORKS  
NEWCASTLE-ON-TYNE



★ **FREE**  
**DISPLAY**  
**BOXES**

Printed in  
attractive  
colours for  
counter or  
window  
displays

**DISPLAY**  
**Sir NYNES**

*—the best of your lines*

See that you stock Sir Nynes—the  
best seller amongst throat pastilles.  
Sold in 3d & 6d airtight tins or loose  
at 2d per ounce.

The  
**SHERWOOD CONFECTIONERY Co.,**  
Forest Works, Workson

**PARAFFINUM  
LIQUIDUM  
B.P.**

HIGH  
VISCOSITY

**TECHNICAL  
WHITE  
and  
HALFWHITE  
OILS**

**WHITE  
PETROLEUM  
JELLY**

PHARMACEUTICAL  
AND  
TECHNICAL  
Qualities

**HOLROYD'S**  
OIL & CERESINE COMPANY LIMITED

3 NEW LONDON ST., LONDON, E.C.3.

TELEPHONE: ROYAL 5126-7

TELEGRAMS: ERRIKOLROY, FEN, LONDON.

**Your  
customers  
see that**

Amongst the millions of newspaper readers who see our advertisements every week are many hundreds of people in your neighbourhood, including those who deal regularly at your shop. They are being convinced of the value of Cephos as a remedy for Headache, Neuralgia and other summer time ailments.

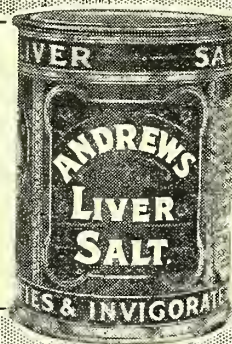
**Do they  
see this?**



If you are a Cephos stockist let your customers and the general public know about it. A supply of attractive display matter will be sent on request.

**Exhibit a Cephos  
Showcard Always!**

*Cephos Limited  
Blackburn, Lancs.*



**IN EVER-  
GROWING  
DEMAND  
9" & 1'4**

**Satisfaction . . . never lost  
a customer!**

**Robb's NURSERY  
BISCUITS**

have been building steady profits and goodwill for over a century.

• **ROBB'S CHARCOAL BISCUITS** are the most palatable Charcoal Biscuits produced. Also makers of Table Rusks, Ginger Nuts, Oatmeal and Digestive Biscuits.

Send to-day for price list and showcards to:—  
**ALEX. ROBB & CO., LTD. (Dept. C.T.2),**  
Nursery Biscuit Factory, Atkins Road,  
London, S.W.12



# AT THE CHEMISTS EXHIBITION

## STAND 9-II

(Burgoyne, Burbidges & Co. Ltd.)

# PEATEX

A range of Medicaments containing all the natural curative and germicidal properties of *raw peat*. Approved by leading hospitals, hydros and dermatologists for the treatment of Skin Diseases, Rheumatic Ailments, etc.

**PEATEX DISTILLATE**  
**PEATEX BATH CONCENTRATES**  
**PEATEX OINTMENT**  
**PEATEX SUPPOSITORIES**  
**PEATEX LINIMENT**

PEAT TRUST LTD., CARLTON HOUSE, REGENT STREET, S.W.1

# PLAIMAR

## SANDALWOOD OIL

*B.P. and French Codex*

DISTILLED BY PLAIMAR LTD., PERTH, W.A.

LOOK FOR THIS SEAL—IT IS YOUR  
GUARANTEE OF QUALITY



Telephone: City 4659

Telegrams & Cables: Azucena, London

Codes: A B C 5th & 6th editions,  
and Bentley's 1st and 2nd editions

European Agents

**MAXWELL, PLAISTOWE & Co. Limited**

22a College Hill, Cannon Street, London, E.C.4

Paris Address: Etabs, Plaistowe, 11 bis, Rue Volney



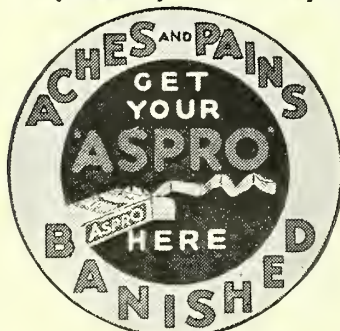
# THIS DISPLAY SELLS 'ASPRO'



## & BRINGS CUSTOMERS INTO YOUR SHOP

The window display illustrated above definitely sells 'ASPRO'. It connects up with the largest advertising campaign of its kind in the world. When you display it, you get the benefit of 'ASPRO' advertising just as though you paid for the advertisements yourself—the non-displayer loses customers and loses profit. The present change of the weather conditions is causing a great demand for 'ASPRO'. We suggest, therefore, that if you have an 'ASPRO' display you show it. If you have not one—then write us to-day, and we will send the above set by return of post. Do not forget, either, the 'ASPRO' service of Chemists' envelopes and bags. They are good business pullers—they save you money. Let us assure you here that our sales activities are

being vigorously pushed. House-to-house broad-sheeting is in operation, backed by heavy national advertising. We advertise 'ASPRO' continuously. If you keep on displaying 'ASPRO' advertising material 'ASPRO' customers will keep on coming to you.



AN 'ASPRO'  
WINDOW STICKER

'ASPRO' consists of the purest Acetylsalicylic acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made in England by

**ASPRO LTD., SLOUGH, BUCKS.**

Phone: Slough 608

No proprietary right is claimed in the method of manufacture or the formula.





# INCREASING POPULARITY



A *Cadbury* PRODUCT  
FOR SLEEP & ENERGY

# INCREASING SALES FOR YOU!



**Advertised goods  
yield quick  
profits**

**FAIRY DYES**

are big sellers—always in popular demand. They mean quick turnover and liberal profits. Fairy Dyes are forging steadily ahead and you should periodically inspect your stocks.

Retailed at 2d. per tube—attractively packed. 31 shades and colours.

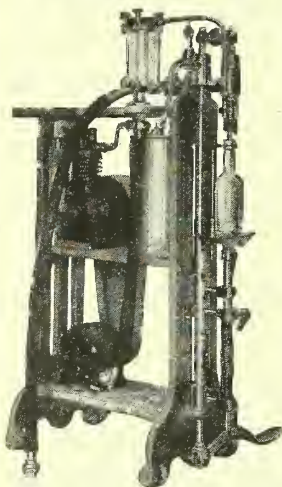
Be wise—stock

**LONDON DEPOT:**  
292 UPPER ST.,  
ISLINGTON - N. 1

*Fairy Dyes*

FAIRY DYES, LTD., GLASGOW, N.W.

**ROBERTS' PATENT  
"LEO" VACUUM FILLER**



for Glass, Stone,  
and Tin Bottles.  
Fills all sizes from  
drachm to quart—  
long, short or  
sprinkler neck.

Clean and Rapid  
No Over Filling  
Broken Bottles

Rejected  
Easy to Clean  
Self Rinsing

WRITE FOR  
PARTICULARS

**Roberts' Patent Filling Machine Co.**

T. ROBERTS, Proprietor,

**33 Roundcroft Street, Bolton, Lancashire**

Makers of every description of Bottle Filling and Shallow  
Jar and Tin Filling Machine for the Chemists' use.

ALL RIGHTS RESERVED

**COCOA BUTTER—B.P. QUALITY  
SLABS AND TABLETS**

**PURE COCOA POWDERS**

**GRANULATED RICES AND  
RICE FLOUR**

BAKING POWDER QUALITIES

**A. PRESCOTT**

12 BROOM LANE, BROUGHTON PARK,  
MANCHESTER 7

**GLYCERINE**

We supply pure, specially  
distilled glycerine for all edible  
purposes. May we have your  
enquiries?

**GLYCERINE LTD.**

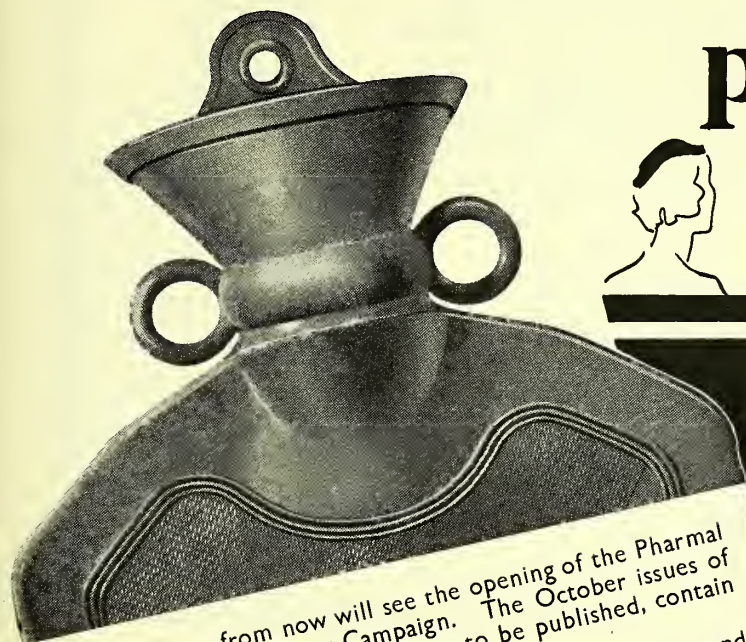
Unilever House, Blackfriars, E.C.4

'Phone: Central 7474  
GET. 72-254 A

'Grams: "Glymol,  
Telex, London"



# Profit from "Pharmal" publicity!



But a day or two from now will see the opening of the Pharmal Hot Water Bottle Publicity Campaign. The October issues of the popular Women's magazines soon to be published, contain the opening Pharmal announcements. Pharmal advertisements will reach at least 900,000 women, and shortly the repercussions of this wide-spread advertising will be reflected in actual sales. Look for the advertisements, show the Pharmal Bottle in your windows, and so secure your share of worth-while business.

Please send a postcard asking for Pharmal Leaflets and Showcards. We have advertising material at your disposal entirely free of charge. Each bottle guaranteed and packed in an attractive display carton. Fixed retail price 2/11. Supplied only through Wholesale Houses.

THE LEYLAND & BIRMINGHAM RUBBER CO. LTD.,  
LEYLAND ..... LANCs.

## Pharmal

### HOT WATER BOTTLE





# HOT WATER BOTTLE COVERS



## NOW READY—NEW SEASON'S RANGE

OF ALL COVERS FOR MOULDED  
AND REINFORCED BOTTLES—

We offer a comprehensive selection which will cater for the requirements of all classes of trade, but do not fail to see

**H. 14<sup>A</sup> VELOURS COVERS**, with Special Display Device, as illustrated

—THIS IS THE BEST COVER MADE—

And quite new, **H. 164 "GOLDEN FLEECE"**  
—100% Pure Wool, cosy and inexpensive

Other qualities available include Fancy Molleton, Corduroy, Plush, Satin and Cheap Velours, and several novelties

# SOLPORT

BROTHERS LIMITED

184-192 Goswell Road, London, E.C.1

WRITE DIRECT FOR NEW PRICE LIST AND SAMPLES  
AND THEN ORDER THROUGH YOUR WHOLESALE

*Pharmaceutical*

# CASTOR

# PREMIER

# OIL

Tasteless  
Water-White

Made in England by

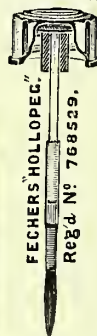
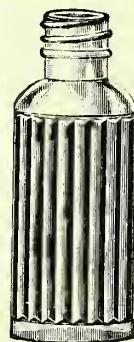
## THE PREMIER OIL EXTRACTING MILLS

HULL

Ltd.

Telegrams: "Premier, Hull"

Telephone: 15191 (8 lines)



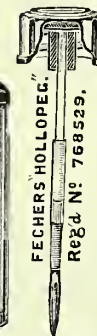
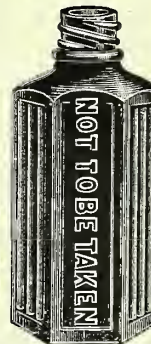
FECHER'S "HOLLOPEG."  
Reg'd No 768529.

## "HOLLOPEG" POISON BOTTLES

$\frac{1}{2}$  in. WIDE OPENING  
FLINT OR AMBER

$\frac{1}{4}$   $\frac{1}{2}$  1 2 oz.

2/- 2/9 3/3 3/9 doz.  
12 doz. lots 3d. doz. less.



FECHER'S "HOLLOPEG."  
Reg'd No 768529.

## "THE HOLLOPEG" BRUSH FITTING IS THE BEST

BLUE SEXAGONAL

$\frac{1}{2}$  1 oz.

3/- 3/6 doz.

12 doz. lots 3d. doz. less.

**M. J. FECHER LTD.**

10 DOD STREET :: LONDON, E. 14

Phone: 3228 EAST Established 1891



# HOT WATER BOTTLES

*that will increase  
your sales—*

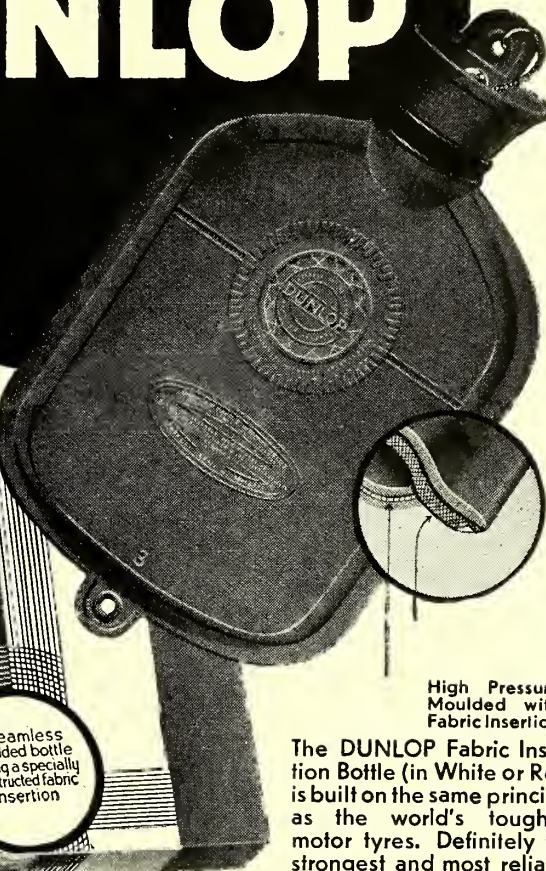
# DUNLOP



DUNLOP All-Rubber MOULDED BOTTLE in Cellophane wrapping. In Red only (on left). Fixed Retail Selling Price **2/11**



A seamless moulded bottle having a specially constructed fabric insertion



High Pressure Moulded with Fabric Insertion

The DUNLOP Fabric Insertion Bottle (in White or Red) is built on the same principle as the world's toughest motor tyres. Definitely the strongest and most reliable hot water bottle in the world.

Fixed Retail Selling Price **3/11**

*Made under British Patents*

## RED RIDING HOOD BOTTLE

*Made under British Patents*  
Regd. design No. 781,840. Fixed Retail Selling Price **4/6** including red head cover.

## ANIMAL SERIES

*Made under British Patents*  
These can be sold to practically every family in addition to their usual hot water bottles. Fixed prices to the Public—KITTY, BUNNY, TEDDY, **3/11** DOGGIE, uncovered, each

Covered in coloured velvet, each **5/9**

COLOURS: PLAIN RUBBER, Black and White Grained or Medium Brown. VELVET COVERS, Orange, Red or Blue.

The Animal Series is now packed in a new and distinctive box having a cellophane inset in the lid which ensures that the contents remain unsoiled yet at the same time allows them to be clearly seen.



Registered Design No. 766,048

This year the prices of the Dunlop Hot Water Bottle range have all been adjusted to give the dealer a clear 33 1/3% profit margin.

Take advantage of these generous terms and stock up with the world-famous Dunlop range.

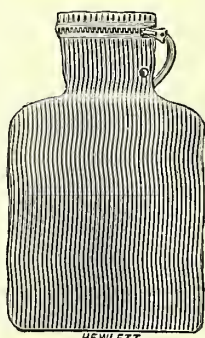
**Obtainable from all Factors**

DUNLOP RUBBER COMPANY LIMITED  
(General Rubber Goods Division),  
Cambridge Street, Manchester.



C.F.H.





## THE "CHARLOTTE" (regd.) HOT WATER BOTTLE COVER

WITH ZIPP FASTENER OR PRESS STUDS  
OPENED INSTANTLY TO FILL OR EMPTY BOTTLE

Sizes ... 10" x 6" 10" x 8" 12" x 8" 12" x 10"  
14/3 15/9 17/3 19/- doz. net.

To fit the moulded hot water bottle, size 11½" x 8", 18/- doz. net.  
Supplied in Pink, Light Blue, Dark Blue and Orange Corduroy or Velour

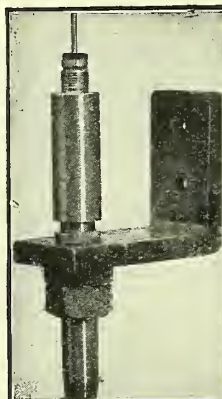
Manufactured only by **C. J. HEWLETT & SON, LTD.,**  
35/42 Charlotte St., LONDON, E.C.2



# Armstrong's

TAPER  CORKS

ARMSTRONG CORK CO. LTD.,  
ALDWYCH HOUSE, LONDON, W.C.2



## SPRINKLER BOTTLES

### Automatic Rinsing

Can be connected to the town's water supply by metal or india rubber hose pipe.

By merely passing the mouth of the bottle over the jet and pressing the bottle downwards water is automatically sprayed into the bottle. The water completely drains away from the bottle as it is withdrawn.

Further particulars may be obtained from the makers:-

**The THOMAS HILL**  
Engineering Co. (HULL), Ltd.  
9 PARK LANE, STEPNEY, HULL

# "SURCO"

RELIABLE

## ELASTIC HOSIERY

SEAMED & SEAMLESS

For special garments to  
measure we maintain a 24  
hour service.

:: BODY BELTS ::  
TRUSSES :: SUNDRIES

*Write for Catalogue.*

**SURGICAL HOSIERY CO., LTD.**

Russell Street :: NOTTINGHAM

Telephone No.: 75903.

Telegrams: SURGICAL, NOTTM.

# SOL-VO SELLS ITSELF



SOL-VO gives a good margin of profit to the Chemist and is economical for the customer because it contains nearly three times as much paper as the "so-called" cheap varieties. It pays to stock and display SOL-VO. Why not give it a trial?

**FORD, SHAPLAND & CO. Ltd.**

GT. TURNSTILE, HIGH HOLBORN,  
LONDON, W.C.1

Telephone: Holborn 4695.



# In the High Court of Justice

## CHANCERY DIVISION

### before Mr. Justice Luxmoore

---

MESSRS. NEWTON, CHAMBERS & CO., LTD. *claimed an injunction to restrain the Neptune Waterproof Paper Co., Ltd. from infringing plaintiffs' trade-mark IZAL. Plaintiffs alleged that defendants had manufactured a roll which they had marked "Medicated with IZAL" and plaintiffs claimed that their trade-mark IZAL was infringed. The defence of the Neptune Waterproof Paper Co., Ltd. was that they had used the plaintiffs' IZAL disinfectant to medicate their rolls and that they were entitled to use the wording complained of. Mr. Justice Luxmoore granted Messrs. Newton, Chambers & Co., Ltd. an injunction restraining the Neptune Waterproof Paper Co., Ltd. from infringing the trade-mark IZAL and ordered an enquiry as to damages and ordered defendants to pay plaintiffs' costs.*

---

#### THIS IS OF INTEREST TO THE PUBLIC

who require a toilet paper that is efficiently medicated and place an increasing confidence in IZAL medicated toilet rolls or packs

#### THIS IS OF INTEREST TO THE TRADER

who stocks IZAL medicated toilet paper to meet an ever increasing demand

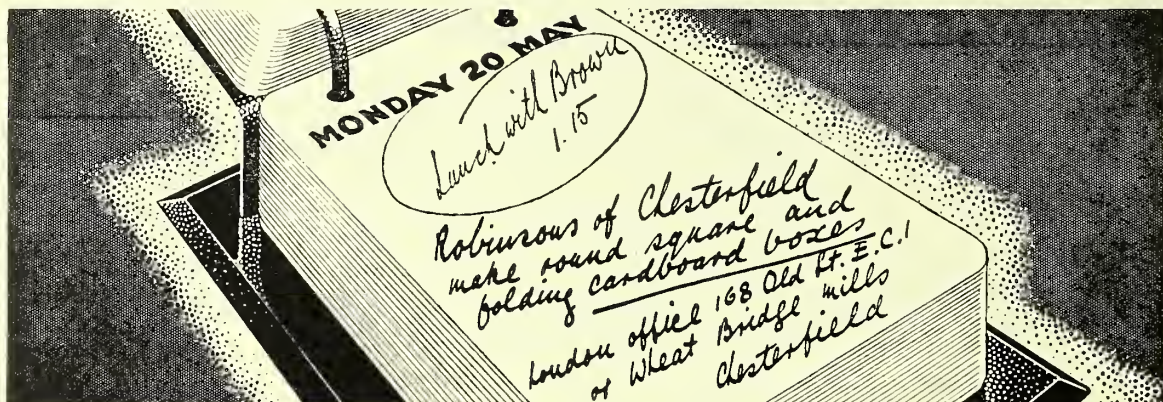
#### THIS IS OF INTEREST TO TRADE-MARK PROPRIETORS GENERALLY

who will welcome a definite pronouncement which will help them to protect their rights

Messrs. Newton, Chambers & Co., Ltd. are advised that to protect their own interests they should take action against any unauthorised use of their trade-mark and have consistently warned manufacturers accordingly.

The word IZAL is the registered trade-mark of Messrs. Newton, Chambers & Co., Ltd., Thornccliffe, Nr. Sheffield, who are the sole proprietors of IZAL medicated toilet paper.





REGISTERED **Reliance** TRADE MARK

**THE FIRST BRITISH MOULDED SEAMLESS  
HOT WATER BOTTLE**

**& STILL IN MAXIMUM PRODUCTION—  
—THE BEST TEST OF ALL**

SAMPLES DIRECT OR THROUGH YOUR WHOLESALE

**RELIANCE RUBBER COMPANY LTD.**

CREMORNE WORKS, LOTS ROAD, LONDON, S.W.10 (1)

**SOUTHALLS**  
SANITARY TOWELS

All the year round publicity, appearing in virtually every newspaper and magazine read by women, ensures steady sales to the dealer who stocks Southall's products.

The "ORIGINAL" and most popular,

The "CELTEX" soluble, easily disposed of,

The "K" made entirely of absorbent cotton wool, with very soft cover,

The "COMPRESSED" for travelling. A very popular line,



**SOUTHALLS (BIRMINGHAM) LTD.**

A New Line in Corn Plasters  
**'CROCUS'**  
**CORN COMFORT**



ATTRACTIVELY PACKED  
IN DECORATED TIN BOXES  
CONTAINING 6 PLASTERS  
OBTAINABLE FROM YOUR  
USUAL WHOLESALE

LIBERAL TERMS

**W. MATHER LTD.**  
MANCHESTER

Telephone: National 1631.

**ROBERTS & NEWTON**

**Label & General Printers,**

DOMINION HOUSE,

BARTHOLOMEW CLOSE,

LONDON, E.C.1

**Printers to the Drug Trade for over 40 years.**

Labels imprinted BY RETURN.

**CHEMIST SIGNS**

**BUY DIRECT FROM  
THE MAKERS**

ILLUMINATED FROM 65/-  
NON-ILLUMINATED FROM 47/6

**SEND FOR ILLUSTRATED CATALOGUE  
SCINTILLATING SIGN SERVICE**

68<sup>A</sup> COLEBROOKE ROW  
ISLINGTON N.1

TELEPHONE CLERKENWELL 1310



## A CONTRACEPTIVE DOCTORS RECOMMEND

Ortho-Gynol—which since its inception has been distributed only through professional channels—is increasingly being recommended and its sales are growing.

Ortho-Gynol is the dependable contraceptive that is effective from the moment of its application. (Douching is contra-indicated for at least 6 to 8 hours.) It is æsthetically acceptable to the large majority. It does

not deteriorate in tropical climates. It is independent of the variables—temperature, moisture, pressure.

And finally, Ortho-Gynol is now available in this economical bulk tube, containing sufficient for 15 to 20 applications, with an unbreakable Applicator, for 5/-.

A refill of the same size, but without Applicator, is sold for 4/-.

Ortho-Gynol is also available in the original box of 6 complete units, each with disposable nozzle, for 4/6.



*Write for trade terms to:—*

*Johnson & Johnson*  
(GT BRITAIN) LIMITED

SLOUGH, BUCKS

*Associated Companies:* AUSTRALIA: Johnson & Johnson Ltd., 194/200 York Street, N. Sydney.  
S. AFRICA: Johnson & Johnson (Pty.) Ltd., 20 Pritchard Street, Johannesburg.

*Representatives & Agents:* INDIA, BURMA, CEYLON, SIAM, MALAYA, EAST INDIES: A. A. Burton, P.B. 330, Bombay, India. CHINA & JAPAN: R. T. Down, Post Box 510, Chinese Post Office, Shanghai. SPAIN: A. Amechazurra, Modesto Lafuente 3, Madrid. NEW ZEALAND: Potter & Birks (N.Z.) Ltd., Adco Buildings, 12-24 Lower Federal St., Auckland.





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Retail 2/6 packet of three

Per Gross  
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24/-

Fromm's Act Tropic-Proof Transparent  
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# The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

SEPT. 14,  
1935

## ADVERTISEMENT TARIFF

**ALL ADVERTISEMENTS** are **PREPAID**, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent-announcement this may be done, provided the money is telegraphed at the same time.

**BUSINESSES WANTED** and for **DISPOSAL, PREMISES TO LET** and **FOR SALE, PREMISES WANTED, PARTNERSHIPS, GOODS FOR SALE** and **AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)

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3.—LONDON, N.W.—Drug and Domestic Stores returning over £40 per week; long lease at reasonable rental; scope for qualified Chemist; enquiries invited.

4.—LONDON.—Several Businesses for sale returning £1,000 to £1,400 per annum; low rentals; long leases; part payment terms entertained; this is an exceptional opportunity and worth immediate attention.

5.—DULWICH (NEAR).—Chemist's Business with sub-Post Office; net profit nearly £500 per annum; good living accommodation; reasonable purchase price; Vendor studying Medicine.

6.—EDGWARE (NEAR).—Family Retail Business returning about £1,600 per annum; good profits; stock worth £260; rent about £80 per annum; long lease; price asked £850 all-at or valuation terms entertained.

7.—WIMBLEDON.—Middle-class Retail Business; returns just over £1,100 per annum; stock worth £285; ample living accommodation; rent approximately £55 per annum; long lease; price £650 all-at or near offer.

8.—BROCKLEY (NEAR).—General Retail Business offering scope; returns at present £20 per week; stock and fixtures worth about £600; reasonable rent; long lease; living accommodation; price all-at about £450.

9.—LONDON, S.E.—General Retail Business with Radio and Battery Maintenance; returns average £100 per week; scope; good profits; enquiries invited.

10.—CHINGFORD (NEAR).—Middle-class Business returning nearly £1,250 per annum; good profits; attractive double-fronted shop; stock and fixtures worth about £625; very good living accommodation; property for sale for £1,000; price of Business £650 plus stock at valuation; in all about £925.

11.—SOUTH COAST.—Middle-class Business, not Seasonal; returns this year will exceed £3,500; stock worth £1,300; modern living accommodation; long lease at £175 per annum; valuation terms entertained.

12.—EAST MIDLANDS.—Wholesale and Retail Business returning over £10,000 per annum (£4,000 from Retail); excellent profits; freehold also for sale; prospective purchasers with approximately £8,000 at command are invited to enquire for full details.

13.—SOUTH WALES.—Two businesses for sale returning approximately £2,200 per annum and £3,000 per annum respectively; ill-health reason for sale; reasonable overheads; the positions occupied are excellent; reasonable purchase prices; can be bought separately; enquiries invited.

14.—HASTINGS (NEAR).—Good-class Dispensing Business; returns average £28 per week; rent £45 per annum; held on lease; price asked £1,000 all-at; ill-health reason for sale.

15.—HAMPTON COURT (NEAR).—General Retail Business returning over £1,100 per annum; double-fronted attractive shop; nicely stocked; flat over; garden; rent £104 per annum inclusive; long lease; offers invited.

16.—READING (NEAR).—Two branch businesses for disposal each returning approximately £15 per week; scope under the management of a proprietor; living accommodation over one shop; long garden; reasonable rentals; price asked £400 each or near offer; stocks could be reduced to suit purchaser.

17.—KIDDERMINSTER (NEAR) (Death Vacancy).—Middle-class Business offering scope for increase; takings this year £900 to £1,000; good profits; stock and fixtures worth about £265; rent £36 per annum; inclusive price Goodwill, Stock and Fixtures, etc., £230.

18.—LONDON.—City Business returning about £50 per week; scope for increase with additional capital; unique position; price £500 to £600 all-at.

19.—MANCHESTER.—General Retail Business returning about £1,500 per annum; net profit £350; stock and fixtures worth £650; reasonable rental; held on lease; price £900 all-at or valuation terms entertained.

20.—SOMERSET (IMPORTANT TOWN).—Good-class Dispensing Business; returns this year will be over £1,600; excellent profits; stock worth £390; nice living accommodation; rent £120 per annum; price asked £1,100 all-at or valuation terms entertained.

21.—FINCHLEY.—Business occupying excellent position for sale owing to exceptional circumstances; returns under management £1,400 per annum; scope; good living accommodation; price about £900; part payment terms would be accepted from an approved purchaser.

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**Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Road, Hazel Grove, Stockport.** Telephone: Great Moor 2405

*Correspondence, mutually confidential, is invited from prospective purchasers of the following businesses at present available for purchase.*

(C1) **YORKSHIRE (WEST RIDING).**—Old-established dispensing business, in present hands 30 years; average turnover approximately £2,000 per annum; property can be purchased or taken on lease; good living accommodation; further details in strict confidence to genuine prospective purchasers with available capital.

(C2) **HIGHGATE (NEAR).**—Main-road middle-class business showing steady and consistent increase; present returns approximately £2,500 per annum; certified net profit for 1934-35, £552; for current year should approximate £650; audited accounts available; strongly recommended from personal knowledge.

(C3) **EDGWARE ROAD (NEAR).**—Established main road business with large N.H.I.; turnover approximately £2,200 per annum; high percentage profit; living accommodation with private entrance; rent £150; lease 14 years; price £1,500.

(C4) **HARRINGAY (NEAR).**—Good family business in present hands 40 years; large panel; turnover now approximately £1,500 per annum, with plenty of scope for further increase; self-contained house; owner retiring; £300 is asked for goodwill plus value of stock and fixtures; open to offer.

(C5) **LONDON AND DISTRICT.**—Several businesses with good scope for further development, are available for purchase at low figures; if desired, initial sums of £50/£100 down and the balance by periodical instalments, will be accepted; present turnovers vary between £750 and £1,400 per annum; further details upon application.

(C6) **HIGHBURY (NEAR).**—Cash drug store in good residential area; present returns approximately £1,200 per annum; good scope for N.H.I. and private dispensing; living accommodation; property for sale, or lease at £120; owner retiring; stock approximately £410; price asked, £800; open to offer.

(C7) **WESTCLIFFE.**—Splendid opportunity for enterprising chemist to acquire good progressive family business in prominent residential district; accountants' figures; turnover for last year, £1,363; net profit, £335; rent £100, including good house; first reasonable offer secures; well recommended from personal knowledge.

(C8) **LANCASHIRE TOWN.**—Double-fronted main road pharmacy situated in central position; certified turnover for 1934/35, £1,620; net profit £450; excellent living accommodation; property can be purchased or taken on lease; reasonable goodwill accepted, plus value of stock and fixtures.

(C9) **VICTORIA (NEAR).**—Good family business showing average returns of approximately £1,650 per annum; double-fronted lock-up

shop; rent £95; good scope for further development; price £900; genuine reason for selling.

(C10) **SURREY (NEAR TO LONDON).**—Good middle-class business with some optics; steadily increasing returns, which for last financial year amounted to £1,878; net profit, £400/£450; modern flat above; stock and fixtures estimated at £950; for quick transaction owner will sell at sacrifice price of £1,100 all-at; splendid opportunity particularly for chemist-optician.

(C11) **BRIGHTON (NEAR).**—Undeveloped business with good self-contained house including bathroom, small garden, etc.; present returns approximately £20 per week; abundant scope for increase; genuine reason for selling; price all at £450.

(C12) **SOMERSET.**—Good-class dispensing business situated in popular holiday resort; present returns approximately £1,600 per annum and steadily increasing; gross profit about £720; good living accommodation; reasonable overheads; genuine reason for selling; price for quick sale £1,100.

(C13) **MIDDLESEX.**—Old-established excellent profit-earning business situated in growing area; turnover approximately £2,600 per annum; net profit to owner-proprietor £650/£700; low rental; long lease; price £2,250 all-at, or near offer.

(C14) **ILFORD.**—Good dispensing and general retail business with six-roomed flat above; increasing turnover; returns for last year (certified) £2,529; net profit about £600; price £1,775, or offer.

(C15) **SUTTON (SURREY).**—Easily conducted family business with up-to-date house attached; turnover well capable of increase if fully exploited; returns for last year, £1,456; gross profit, £543; net profit about £375; no near opposition; price all at £950, including stock and fixtures estimated at £750.

(C16) **KENT.**—Good steady cash business showing an immediate reasonable living, with scope for further increase; present net profit approx. £260 per annum; audited figures available for several years past; rent £32, including living accommodation; price about £550; open to offer.

(C17) **CLAPHAM.**—Up-to-date lock-up pharmacy showing consistent progress; last year's turnover £1,294; now doing £27 per week; reasonable overheads; price £700, or offer.

(C18) **ST. LEONARDS (NEAR).**—Old-established business (not seasonal), with good living accommodation; steadily increasing turnover, now in the region of £1,500 per annum; genuine proposition which is well recommended; price all at £1,050, or offer.

(C19) **LONDON, S.W.**—Branch business, old-established, with living accommodation; turnover for 1934-35, £1,016; net profit about £300; rent £80; excellent scope with personal attention; price about £400.

**Valuations for transfer, probate, income tax, etc., promptly executed at economical rates.**

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2.—**SOMERSET.**—Good-class Retail and Dispensing Business, increasing returns, this year about £1,600; good profits; attractive Pharmacy with excellent living accommodation; owner leaving Pharmacy; price £1,100; trial allowed.

3.—**EASTERN COUNTY.**—Medium-class Light Retail, in important town; returns average nearly £1,000; low rent on lease; well fitted shop (lock up); stock worth £350; genuine reasons for selling; price £550.

4.—**LEICESTER.**—Good-class Suburban Business, in select district; returns over £1,300, net profit £325; good house; long lease granted or would sell; well fitted and stocked; price £1,000.

5.—**SOUTH-EAST COAST.**—Light Cash Retail, with Photographic; increasing; turnover over £900; books properly kept; modern premises; excellent stock; price £500 or offer.

6.—**WESTCLIFF-ON-SEA.**—Sound, progressive Cash Business; returns £1,363, net profit £335, audited books; modern corner shop, flat over; rent £100; price £800 or first reasonable offer.

7.—**NORTH LONDON.**—Sound Middle-class Business, with excellent Panel; returns last year £1,480; neglected; was doing £1,850; owner retiring; well-equipped Pharmacy; good position; stock worth £600; offers invited; personally recommended.

8.—**WEST LONDON (few miles out).**—Old-established Business, now run as Drug Store; returns £25 weekly; plenty of scope; main-road position; well stocked; price £750.

9.—**LONDON, S.W.**—Old-established Drug Stores; under manager returns approx. £900; main-road position; plenty of scope; price for early sale £350 or offer.

10.—**FINSBURY PARK (near).**—Cash Retail, Drug and Photo Store; in same hands many years; retiring; present returns approach £1,200; excellent chance for Chemist; main busy road; stock and fixtures worth £600; audited books; price £800.

11.—**LONDON, E.**—Well-established Drug and Photo Store; returns £700 under indifferent management; splendid chance for Chemist; price, including freehold, £500, plus stock at valuation (about £80).

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**KENT.**—Good-class Business, nicely fitted and modern frontage, in most central position in main thoroughfare of important town; offering plenty of scope for increase; old-established; in present hands over 8 years; good Photographic trade; opening for Optics and Chiropody; long lease; small house over Pharmacy; agreed sum for goodwill and lease plus valuation of stock and fixtures; sound reasons for disposal; accountant's figures; no agents. 1/10, Office of this Paper.

**LONDON.**—Owing to the death of late owner an opportunity arises for a live man with up-to-date ideas; an Old-established Family and Dispensing Business in Westminster, neglected through long illness of the late proprietor; main-road position; rent covered by sub-lets of premises above pharmacy; price £600; stock, fittings, goodwill, etc.; terms can be arranged with a suitable party with £300 or £400. Please write full particulars in first letter to obviate unnecessary correspondence, to S. Tucker, 143 High Road, Ilford, Essex.

**SOUTHEND-ON-SEA.**—Chemist's Double-fronted Shop, with good living accommodation; now rent; well stocked; trade £20 per week; price £350 all at. Station Estate Office, Prittlewell.

**SOUTH DEVON.** Seaside Resort.—Genuine opportunity for Qualified Chemist to acquire Drug and Photo Stores, Kodak Agency; definite scope for Dispensing to be added to present business; freehold property, comprising d.f. shop and tea rooms; price, all in, £3,000 or near offer. 3/20, Office of this Paper.

**WALES.**—Drug Store, lock-up shop; seaside; turnover over £12 weekly; rent and rates 7s. 6d. weekly; Kodak, Selo, etc.; sold at valuation; illness cause of sale. 3/31, Office of this Paper.

**WEST LONDON** Business doing over £1,100 (average), only open 10 months, under large block of flats; central heating; h. and c. water in shop and basement; willing to accept £750, value of stock and fittings (ought to double returns in 12 months); private reasons for selling. 259/18, Office of this Paper.

**17 HIGH STREET, BURTON, DERBYSHIRE.**—Established 50 years as a Dispensing Chemist, with Wine Licence; Photographic and full stock of Drugs and Toilets; nice roomy shop, six rooms above; large dry basement; gas and electric; good turnover and profits; low rent; lease; generous terms to an early cash buyer.

**CHEMIST and Druggist Business** for disposal in busy market town of Leighton Buzzard; 40 miles from London, main line; the business has been in one family's hands for 36 years; shop and dwelling-house; good living for Qualified Chemist; low price for lease, goodwill and fixtures; seen any day by appointment. C., 38 High Street, Leighton Buzzard, Beds.

**FAMILY Business** for Sale in centre of busy market town in Midlands; neglected; turnover now £15 per week; lease on good shop and 6 storerooms; stock, fixtures and goodwill £500; instalments entertained. Apply 3/11, Office of this Paper.

**GOOD Opening** for Qualified Man.—Small Analytical Chemist's Business, established about 5 years, in busy progressive town; no competition and good opening; central premises; good equipment; price £350. Details Woodcock & Son, Ipswich.

**WHOLESALE and Manufacturing;** sound Business for disposal; turnover exceeds £10,000 annually (own Proprietary lines over £1,000); good connection with all classes Retail Stores; Warehouse central, main road; £25 per annum clears rent and rates. Full information to genuine inquirers. Apply 245/19, Office of this Paper.

**BUSINESSES WANTED.**

**MIDLANDS.**—Genuine Retail Businesses returning £1,800 to £10,000 per annum; proportionate overheads; cash available; bankers' references will be furnished if desired; counties preferred—Warwickshire, Worcestershire, Staffs, Derbyshire, Notts, Northants, Leicestershire. 267/648, Office of this Paper.

**DRUG STORE or Chemist's Business** required, with Kodak Agency, in Birmingham or Midlands; must show net profit of at least £250 per annum, with definite scope for increase under personal management; advertiser has cash available for immediate purchase; must bear every investigation. Give full particulars in confidence to 2/22, Office of this Paper.

**WANTED.**—A small Ready Cash Practice, suitable for a Medical Practitioner; Lancashire or Cheshire preferred. Apply Dr. Geary, Broken Cross, Macclesfield.

**PREMISES.**

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**CHEMIST** really urgently needed in the centre of one of the largest housing estates in South London, approximately 10,000 houses; only one Chemist (Store) to cater for nearly 50,000 people; of a new block of 40 shops only one is still available. Full particulars of The Owner, Geo. Cross, 35 Baker Street, London, W.1. Welbeck 3656.

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**ARCADE Shop,** with two frontages, opposite Tube Station; unique position; total window space 54 ft.: rent £175 per annum. Apply Newman, 12 Turnpike Lane, N.8.

**ATTRACTIVE Shop,** main road, 16 ft. by 14 ft.; new Front; Watling Street; exceptional opening for only Chemist and Optician in rising district; living room, 3 bedrooms, kitchen; main water, gas, etc.; moderate rent, £1 weekly; also Lock-up Shop, similar, 10s. weekly inclusive. Bates, "Chelbury," Radlett.

**EXCELLENT Double-fronted Shop,** with ample living accommodation, at 11 Station Parade, High Street, Wanstead, E.11, opposite Snaresbrook Station; demand for Chemist in neighbourhood; no near competition; populous and good-class district; rent £110, exclusive. Keys with R. Cheke & Co., 11 High Street, Wanstead (five minutes away).

**HIGH-CLASS Shops** to Let in new parade in best part of High Road, Streatham, from £140-£500 per annum. Apply Letting Manager, 17 Streatham High Road, 'phone Streatham 9627, or Bell Investment Trust, Ltd., 115 Park Street, Mayfair, W.1. 'Phone Mayfair 4201.

**PARADE OF ELEVEN NEW SHOPS.**—Lovely living accommodation; low rent; all Staybrite steel fronts; one suitable for a Chemist. Apply Station Estate Office, Prittlewell, Southend-on-Sea.

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**REQUIRED,** in Birmingham and surrounding Counties, Agents with well-established high-class connection with Chemists and Dealers, to develop sales for Northern Manufacturers. Reply, with details of lines now held, to P.C.B. 176/3, Office of this Paper.

**SPECIALITY Sales Organisation** conducted by young, enthusiastic and energetic Englishmen, having firmly established and active connection with Chemists (Wholesale, Retail and Multiple), Departmental Stores, Surgical and Dental Instrument Houses throughout the United Kingdom, wish to contact Manufacturers desiring Representation; exhaustive and inimitable experience in Merchandising Proprietary Products, not only Home trade but by personal visits to U.S.A., Canada, Australia, New Zealand, South Africa, Rhodesia, East Africa, Japan, Dutch East Indies, Holland and Scandinavia. P.C.B. 175/28, Office of this Paper.



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## SITUATIONS OPEN.

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6s. for 40 words or less ; 6d. for every additional 10 words  
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**BIRMINGHAM.**—Qualified Assistant; good character essential;  
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particulars, references and salary required, E. J. Bates & Co.,  
Ltd., 110 Yardley Road, Acoccks Green, Birmingham.

**BIRMINGHAM.**—Smart, well-educated young Assistant (Unquali-  
fied). Apply, with full particulars as to experience, stating  
salary required, Managing Director, Hedges (Chemists), Ltd., Dale  
End, Birmingham.

**BIRMINGHAM** (near).—Reliable Junior Assistant required; neat  
and conscientious Dispenser, accustomed to rapid N.H.I. and  
quick Counter trade. Give age, height, experience and salary,  
with particulars of education and references, to 2/8, Office of this  
Paper.

**CHANNEL ISLANDS.**—Junior Assistant, Unqualified; Part I pre-  
ferred; used high-class Pharmacy; experience Window-dress-  
ing, Dispensing, and of good address; permanent. Full particulars,  
photo and references, C. M. Stone, Chemist, Bath Street,  
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**LITTLEHAMPTON.**—Chemist, Optician, Photographic goods;  
fully Qualified Man wanted to open and control new shop;  
used to Buying, Display, etc.; married; excellent living accom-  
modation upstairs; partnership considered; live man with ambition  
required; salary and bonus. Castle View Estate, Littlehampton.

**LIVERPOOL** District.—Good Junior wanted; N.H.I. and Family  
trade. 3/29, Office of this Paper.

**LONDON.**—Qualified Assistant required immediately, able to take  
charge; must be a good Window-dresser and tactful Sales-  
man. Write full particulars of experience, age, salary, to Chemist,  
259 Battersea Park Road, S.W.

**LONDON, E.**—Assistant, Qualified or Unqualified, "soon"; male;  
for quick N.H.I. Dispensing and occasional Counter when  
required (under 45); permanency if suitable. State age and  
usual particulars (interview desirable) to Director, "Drug Stores,"  
39 Devons Road, Bow, E.3.

**LONDON, E.**—Unqualified Assistant (about 26), accustomed to  
quick Counter and N.H.I., and with Display ability; im-  
mediate. Photo, salary, etc., to 3/8, Office of this Paper.

**LONDON, N. and W.**—Two young Qualified Male Assistants for  
working-class businesses; must be quick, accurate Dispensers,  
really good Window-dressers; permanent positions for conscientious  
workers; state salary and references. 4/8, Office of this Paper.

**LONDON, N.W.10.**—Wanted, Unqualified young Lady Assistant,  
with good Dispensing experience and able to Dress Windows.  
Give details of experience, salary wanted and age to 267/650,  
Office of this Paper.

**LONDON, S.E.**—Young Qualified Man wanted immediately for  
branch shop; must be experienced Counterhand, Window-  
dresser and Dispenser. Write, giving full particulars of age, height,  
references and salary required, if possible enclose photograph.  
2/15, Office of this Paper.

**MANCHESTER.**—Wanted, young Qualified Assistant, working-  
class district; quick Counter and N.H.I.; good Window-dresser;  
state age, salary required, full particulars. 3/53, Office of this  
Paper.

**MIDLANDS.**—At Once, smart Lady (Unqualified) Assistant; quick  
and accurate Dispenser, N.H.I. and private; good wage; full  
particulars of experience, copies testimonials for last two positions,  
photo. 1/3, Office of this Paper.

THE WILLESSEN GENERAL HOSPITAL,  
HARLESSEN ROAD, N.W.10.

**A VACANCY** has occurred for a Qualified Assistant  
(female) in the Dispensary; salary commencing at  
£156 per annum, with usual emoluments; federated  
superannuation scheme in force.

Previous Hospital experience desirable. Applications,  
with full details, to reach the Secretary of the Hospital  
not later than 9 a.m. on Monday, September 16, 1935.

**A.A.A.A.A.**—YOUNG Qualified Assistant required, also  
an Unqualified wanted immediately; near  
London; kindly state experience, age and salary required, also when  
free. 3/47, Office of this Paper.

**A QUALIFIED** Assistant (male) required, Home Counties; must  
be reliable Dispenser, good Window-dresser and Salesman,  
with all-round knowledge of Photography; good-class business.  
Apply with full particulars, age, experience, salary required,  
2/19, Office of this Paper.

**ASSISTANT**, Gentleman, young and Unqualified; applicant must  
be refined, of good address, smart appearance and manner;  
well trained in Dispensing and Counter essential; good-class modern  
branch shop; pleasant locality, near Epping Forest; interview essen-  
tial; full experience and salary (no stamped envelopes). Leonard  
Matthews, 722 High Road, Leytonstone, Essex.

**ASSISTANT**, male or female (not over 30); quick and accurate  
Dispenser, N.H.I.; Counter and Windows; only one Assistant  
kept; salary £2 10s. per week; North London; full particulars,  
height and experience and undeniable references; start as soon as  
possible. 3/37, Office of this Paper.

**ASSISTANT**, Qualified preferred, but Unqualified smart young  
man with good Dispensing experience would find a most con-  
genial and interesting. Photo and particulars, 2/230, Office of  
this Paper.

**AT ONCE**, Qualified Locum, Lady or Gent.; able to take charge;  
possible permanency to suitable applicant. Phone Bedford  
3420 or write Morgan, Chemist, Bedford.

**JUNIOR** Assistant or Improver required at once for a good-class  
modern Family business; give full particulars of experience,  
state age, height and salary required. 3/44, Office of this Paper.

**JUNIOR** Assistant required; accustomed to quick Counter trade  
and N.H.I. Dispensing. Apply by letter, giving full particulars  
and photo, W. J. Weatherhead, 485 King's Road, Chelsea, S.W.10.

## PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this  
section applicants are strongly advised not to  
send (unless specially requested) ORIGINAL  
TESTIMONIALS or VALUABLE PHOTO-  
GRAPHS. As can be readily understood,  
when an advertiser receives from 100 to  
150 replies the task of returning photographs,  
testimonials, &c., is one of some difficulty.



**JUNIOR** or Improver, male; good-class experience; please state age, height and salary required, enclosing photo. H. W. Bryan, Chemist, Malmesbury, Wilts.

**LADY** Assistant wanted this month for good-class Pharmacy in Beckenham; must be capable Dispenser and good Saleswoman; permanency if satisfactory. Write, giving full particulars of experience, copies of testimonials, salary required, etc., to 3/9, Office of this Paper.

**LADY**, Qualified; permanency; cheery surroundings. Photo and usual particulars, 2/23, Office of this Paper.

**MANAGER**, Qualified, wanted at once (under 30) for middle-class shop in North-East England; good Window-dresser and Salesman essential. Also **UNQUALIFIED ASSISTANT** for good-class city business as Senior. Fullest particulars of experience, references, photo if possible (will be returned), to "Permanency," 3/16, Office of this Paper.

**QUALIFIED** Assistant, Lady or Gentleman, wanted shortly for Wembley; Dispensing, Counter and Window-dressing. Full particulars, with recent photo, to T. Emery, 8 High Street, Ealing.

**QUALIFIED** Assistant required for modern, well-equipped progressive branch shop, London suburb; comfortable and permanent position, with ample opportunities for conscientious worker of good personality. Apply, stating fullest particulars, to 2/11, Office of this Paper.

**QUALIFIED** Lady Dispenser required by Doctor near Croydon; able to keep books. Write, giving fullest details, including age, salary required, to P.C.B. 176/9, Office of this Paper.

**QUALIFIED** (male) Assistant; permanency (Norfolk); please give full particulars in first letter; photo if possible. 3/15, Office of this Paper.

**QUALIFIED** Manager for good-class Family and Dispensing business in London; comfortable permanency, with living accommodation; interview essential. State age, experience and salary required to 3/45, Office of this Paper.

**QUALIFIED** Manager for small branch; South Coast; young, experienced; comfortable berth; permanent. Send photo and full particulars to 3/5, Office of this Paper.

**QUALIFIED** Manager required for a good-class business in the Midlands; married; good living accommodation above shop; full particulars in first letter, age, height, experience and salary expected. 267/646, Office of this Paper.

**QUALIFIED** or experienced **Unqualified Relief Assistant** for two or three weeks from September 23; please give full particulars and snap in first letter; applications unanswered in 7 days respectfully declined unless accompanied by addressed envelope. Hunnisset, 82 Seaside, Eastbourne.

**RELIABLE** Qualified Manager wanted to take sole charge of good-class branch business N.W. Suburb; knowledge Photography (not under 30 preferred); full particulars, age, height, references, salary, etc. 3/26, Office of this Paper.

**REQUIRED**, Junior Assistant, young, wanted at once, London, S.W.; write, giving full particulars, age, experience, height, salary required; applications not answered in 7 days declined with thanks. 3/48, Office of this Paper.

**REQUIRED** on October 1st, permanency, Young **Unqualified** Male Assistant (19-22 years); good gentlemanly appearance for high-class Counter Trade. Write, stating experiences, photograph and refs. essential, and wages (live out), Gordon Morum, Chemist, Arcade, Guernsey, Channel Isles.

**UNQUALIFIED** Assistant (not under 25), with good experience of high-class Dispensing and knowledge of Photography. Apply, C. W. Higgins, 47 Market Place, Salisbury.

**UNQUALIFIED** Assistant wanted at once for good-class business (age not over 35); permanency; must be quick at Counter and good Window-dresser; please give full particulars in first letter. Reed, 410 Green Lanes, Palmer's Green, N.13.

**UNQUALIFIED** Lady Assistant, chiefly for Counter, but capable of taking turn in Dispensary; first-class Window-dresser and sound knowledge of Toilets and Photographs essential. Full particulars, experience, age and salary required, photo if possible. Worth, Bude, Cornwall.

**UNQUALIFIED** Male Assistant required (age 20-25) for high-class Suburban district. Reply, with full particulars of age, salary required, experience and photo, to L. Hudson Banks, M.P.S., 94 High Street, Ruislip, Middlesex.

**WANTED** immediately; **Unqualified Junior Assistant**, used to quick N.H.I. and Counter; good Window-dresser. Apply personally to Tobin, 49 Harford Street, Mile End, E.1, on Monday afternoon, September 16, between 2 and 5 o'clock.

**WANTED**, **Unqualified Assistant** (about 25); must be good Dispenser and generally capable; applications not answered in 7 days respectfully declined. Apply, giving full particulars, to Jones & Co., 5 Rectory Road, Beckenham.

**WANTED**.—Young **Qualified Assistant**. Welsh speaking an advantage. Applications, giving experience, salary and names of late employers for reference, to Amos, Chemists, Rhos, Wrexham.

**WANTED**, Young **Unqualified Assistant** for three months from October 1; accurate Dispenser and agreeable Counter manner; full particulars and salary required outdoor. Harvey, Knaphill, Woking.

**WANTED**, Young **Unqualified Junior**, male; single; outdoor; industrial district; send all usual particulars, references, salary required; applications not answered in 7 days respectfully declined. Swindells, Chemist, Hyde, Manchester.

**YOUNG** Lady Assistant required; state experience, age, salary. C. H. White, Ltd., Oldbury.

**YOUNG** Lady Assistant wanted, **Unqualified**, with good general experience; please give full particulars of experience, with age and salary required. Davies, 59 Dudden Hill Lane, Willesden, London, N.W.10.

**YOUNG** **Unqualified Assistant** wanted for high-class Pharmacy in Surrey; about middle of October. Give full particulars of training and experience and state commencing salary required. 2/13, Office of this Paper.

## WHOLESALE.

**A** **LEADING** Firm of London Wholesale Druggists has vacancies on its staff for one or more Representatives; previous experience in Representation amongst Chemists and Doctors essential; all correspondence is treated as strictly confidential. 267/649, Office of this Paper.

**ESTABLISHED** Pharmaceutical House require additional young **Qualified Representatives** for Northern Ireland, South-West England, North-East England, East Anglia, calling on Medical men, Chemists and Hospitals; salary and expenses. Full particulars to 267/651, Office of this Paper.

**EXECUTIVE** required to assist Director in Charge of Sales; applicants must have had considerable experience both on the Production and the Selling sides of a well-known Wholesale Drug House; applicants without such experience will not be considered. Apply in writing, giving fullest particulars, also stating age and salary required, to G. A. N. Hirst, Esq., Hirst Brooke & Hirst, Ltd., Sheepscar Works, Leeds.

**FIRM** marketing world-known Products have vacancy on Sales Staff for first-class Representatives with good connections among Chemists and Druggists in Shropshire, Leicester, Stafford, Hereford, Worcester, Warwick, Derby, Nottingham and Lincoln; part expenses and excellent commission paid; only first-rate men will be considered; splendid opportunity. Write 266/641, Office of this Paper.

**FIRST-CLASS** Representative required with connection, if possible, Chemists and Stores, London and Suburbs, to carry unique additional line. Write, giving full particulars, district covered, age, etc., to E. Buchanan, 14/16 Lower Regent Street, London, S.W.1.

**MANUFACTURING** Chemists of middle-class Cosmetics require Junior. State age, experience and salary required, 266/640, Office of this Paper.

**MANUFACTURING** Chemist requires Representative to visit Hospitals, Wholesalers and Institutions in London and country; only experienced first-class **Qualified** Chemist need apply; salary £4 per week plus expenses plus commission. 267/647, Office of this Paper.

**PHARMACEUTICAL** Laboratory Assistant, **Qualified**, young, with all-round experience of ordinary Manufacturing processes. Apply, stating age, experience, wage required and when free, to "North-Eastern," 266/643, Office of this Paper.

**PHOTOGRAPHY**.—A number of girls (16-20), with knowledge of Velox D. & P.; permanent work, with prospects offered to steady workers. Apply Mr. C. T. Hines, Ph.C., Speedy D. & P. Ltd., Shelford Place, Church Street, N.16.



**R**EPRESENTATIVE Required for Lancs, Cheshire, Staffords, on commission basis; one with good connection and carrying other non-competitive lines; must be reliable and trustworthy. 266/644, Office of this Paper.

**R**EPRESENTATIVE Wanted for the sale of B.P. Bismuth Carbonate, B.P. Potassium Iodide, amongst the Retail Chemists; if necessary, can work our lines in conjunction with own provided they do not clash. Reply in confidence to 266/645, Office of this Paper.

**R**EPRESENTATIVES Wanted, London and Provinces, already calling on Chemists, to carry additional lines—one a food line—on liberal commission basis. References and details of experience required in writing to Dytex, 199 Upper Thames Street, London, E.C.4.

**R**ESIDENT Representatives (two) required for West of England and Yorkshire territories to carry exclusive Cosmetics and Perfumery; live connection with Stores, Chemists, Ladies' Hairdressers; proof of good sales record; essential qualifications; fidelity bond required; salary and commission basis; car an advantage. Write full details to Box 957, c/o C. Mitchell & Co., 1 Snow Hill, E.C.1.

**T**ABLET Manufacture.—A vacancy occurs in London for an expert Manufacturer and Coater of Tablets, Pills, etc.; must be thoroughly conversant with all branches, including Sugar, Pearl, Gelatine and Silver Coating; only first-class men need apply. Full particulars of age, experience, salary expected and when disengaged, in first letter to 266/633, Office of this Paper.

**W**ORKS Manager required by leading firm of Manufacturing Chemists (age about 35); good education and experience essential; the post is a responsible one and adequate remuneration will be paid; application should be accompanied by references and photograph. C/o 266/642, Office of this Paper.

## SITUATIONS WANTED.

### RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A.A.A.**—PHARMACIST (27), tall, good appearance, address salary, fair commission. 4/9, Office of this Paper.

**A.A.A.**—QUALIFIED Live Salesman, Window-dresser; keen Counter Prescriber; West End experience; disengaged 20th; salary £4 10s. "Advertiser, 54 Torrington Square, W.C.1.

**A** REALLY Qualified Manager is considering a change, requires responsible permanent position where hard work and personality will be appreciated; salary required £6 per week (age 32); married; interview essential; free one month from date of engagement. 3/24, Office of this Paper.

**A** SUCCESSFUL Qualified Manager (28), used to control of good-class business, desires change where initiative and energy will be appreciated; good appearance; sound references. 3/39, Office of this Paper.

**A**N Experienced Assistant, accustomed to heavy Dispensing and high-class Retail, desires good permanency; disengaged September 21; energetic; excellent references; 5 ft. 10 in. "Advertiser," 9 Shandon Road, Clapham Park, S.W.4.

**A**N Experienced Qualified Man (27) seeks change; well educated; single; excellent references. 4/17, Office of this Paper.

**A**SSISTANT, married, Unqualified, desires change; permanency; Birmingham-Wolverhampton district preferred, but not essential; capable Dispenser, Counter, Window-dressing; used to heavy N.H.I.; 14 years Retail Pharmacy; present situation 7 years. 3/23, Office of this Paper.

**A**SSISTANT, Unqualified; 11 years last situation; Dispensing and Counter work; disengaged. W., 58 Northcroft Road, W.13.

**A**SSISTANT, Unqualified, tall (26); Counter, Window-dressing, Dispensing, Photographic (Ciné); desires change; 4½ years' West End experience; excellent references. D. Vaughan, 167 Prince's Avenue, Kingsbury, N.W.9.

**A**SSISTANT, Unqualified (21); 5 years' experience busy seaside town; keen Salesman; Toilet, Photo trade, Dispensing and Window-dressing experience; excellent reference; free when required. T. Sparkes, Ingleside, Beer, Devon.

**A**SSISTANT; West End experience; disengaged September 21; Counter and Dispensing; good reference; locum or permanency. Write to M. G. Birch, 4 Melrose Gardens, Shepherds Bush, W.6.

**A**SSISTANT (22), height 6 ft.; Part I; Dispensing, Counter and Photographic experience; London or country; free end of September. 3/41, Office of this Paper.

**A**SSISTANT (29), Unqualified, 10 years' experience Dispensing and Retail, good knowledge of Veterinary Prescribing, desires permanency; free October 3. 1/9, Office of this Paper.

**B**RISTOL or West; locum or permanency; 25 years manager, proprietor; keen business man. M.P.S., 6 Westleigh Park, Bristol, 4.

**C**HEMIST, who is disposing of own middle-class business, desires permanent Managership; thoroughly reliable; 3 years' experience as Manager, 5 years in own business; excellent references (age 31); married. 3/14, Office of this Paper.

**D**ISENGAGED, Assistant or Locum; high-class West End experience (middle age). Harry, 5 Magdalene Place, Ashley Vale, Bristol.

**D**ISPENSER Requires position, full or short time; long and varied experience; good testimonials; present position 5 years; Qualified. H. F. Drake, 225 Bellview Road, Welling, Kent.

**E**XPERIENCED Unqualified Lady desires change; Dispensing, Counter and slight knowledge of Buying and Book-keeping. 2/27, Office of this Paper.

**F.S.M.C.**, J.C.Q.O., Hospital trained, seeks post as Unqualified Assistant in Pharmacy with facilities for opening Optical practice; own equipment and stock; London or near. Stephens, 84 Stowe Road, Shepherds Bush, W.12.

**L**ADY Dispenser-Bookkeeper desires post; Hall Certificate; experienced; Brighton or near. 8 Prestonville Road, Brighton, 1.

**L**ADY Dispenser (Hall) (age 25) requires post immediately with Chemist, Doctor or Institution in Blackburn or Bury district. 3/54, Office of this Paper.

**L**ADY Dispenser (Hall), 4 years' experience, seeks post with Doctor or Institution preferred. 246/48, Office of this Paper.

**L**ADY Dispenser (Hall), 4 years' London Hospital experience, seeks post with Doctor or Institution; country district preferred. 2/12, Office of this Paper.

**L**ADY Dispenser (19), Hall Qualification, requires post with Doctor or Chemist; preferably London or the South. Apply, Miss P. B. Rider, The Old Bank House, Egham, Surrey.

**L**ADY, Qualified, requires locum or permanency; good general experience; would manage; free October 14. Pharmacist, 5 Randolph Gardens, N.W.6.

**L**IVERPOOL and District.—Qualified (29) seeks post as Manager; conscientious and reliable; highly recommended; free end of month. H. S., 95 Salisbury Road, Liverpool, 15.

**L**OCUM or Permanency, Qualified, tall (39), all-round experience, desires post, disengaged September 13. "Statim," 98 Newcomen Road, Wellingborough.

**L**OCUM, permanency; thoroughly experienced (39); reliable; excellent references; disengaged. Julius Levi, M.P.S., 18 King's Road, Sedgley Park, Manchester.

**L**OCUM, Qualified (middle aged); active; reliable; well recommended; free September 30; anywhere. H. H., c/o Ecclestone, Phar. Chemist, Stansted, Essex.

## NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.



**LOCUM.**—M.P.S., F.S.M.C., Pharmacy or Optics, well experienced; highly recommended; free September 23. R. A. Fisher, 33 Woodberry Way, Finchley, N.12.

**MANAGER**, experienced (28), Scot, 9 years London, desires post; Scotland or North England; references unimpeachable. 3/35, Office of this Paper.

**MANAGER** or locum; good-class Family and Dispensing; disengaged September 30. Pharmacist, 35A Hillfield Park, N.10.

**MANAGER**, Qualified (35); married; free September 23; excellent references. Beck, 193 Harrow View, Harrow.

**M.P.S.** DESIRES Managership, London or near; West End experience; middle-aged; good appearance; excellent references. 3/25, Office of this Paper.

**M.P.S.**—LOCUM, disengaged September 23; experienced. State terms. Cymro, 76 Radford Road, Nottingham.

**M.P.S.**, LOCUM or Management, with view to succession; experienced and dependable; London only. "Business-BUILDER," 9 Sandland Street, W.C.1. Tel.: Holborn 7155.

**M.P.S.**, MANAGER, locum, emergency duties; all-round experience. 'Phone Reliance 2741. I. L. Davies, 164 Clapham Road, S.W.

**M.P.S.**, STUDYING Ph.C. course, desires evening and holiday duty; Hospital, Retail experience. Cummins, 16 Mayflower Road, S.W.9.

**M.P.S.** (40) desires post as Manager or Senior in or near London; reliable and conscientious worker; West End experience; free September 30. Lord, 19 Northcott Avenue, Wood Green, N.22.

**PERFUMERY.**—Young Lady (27), tall, good appearance, desires position in high-class Pharmacy; West End experience; good Stock-keeper. 2/2, Office of this Paper.

**PHARMACIST** desires position as Manager or Superintendent for company in London; elderly, active, reliable; abstainer; strictly moderate salary. 3/12, Office of this Paper.

**PHARMACIST** with available capital desires to purchase an interest in a suitable Pharmacy, Lancs, Cheshire or Midlands, with ultimate view of ownership; experienced in all branches, especially Dispensing and Counter. 2/6, Office of this Paper.

**PHARMACIST** (26), 5 ft. 9 in., single, desires post as Manager or Assistant in high-class Pharmacy; excellent references; now free. Swainston, 13 St. Michael's Avenue, South Shields.

**QUALIFIED** Lady Assistant desires permanency or locum with Doctor or Chemist; all-round experience. 1/2, Office of this Paper.

**QUALIFIED** Lady desires responsible post near London; experienced in Counter, Dispensing, Photography; capable of taking charge; free October. 3/22, Office of this Paper.

**QUALIFIED** Lady Manageress desires change; fully competent to take complete charge of any Pharmacy. Apply for references and full details of post and experience to 3/110, Office of this Paper.

**QUALIFIED** (33), single, desires permanency; Hospital, Stores, Private and Superintending experience; neat Dispenser and Photographer; keen Window-dresser. "Solanum," c/o Whitlam, Chemist, Newlands Avenue, Hull.

**QUALIFIED**, 7 years' wide experience, seeks permanent post in city or province (age 26); height 5 ft. 9 in.; salary £4. Apply, 4/4, Office of this Paper.

**UNQUALIFIED** (bachelor); many years sole control; good Prescriber and Counter; light duties; nominal salary. J. Heely, 259 Underhill Road, East Dulwich, S.E.22.

**UNQUALIFIED**, Part I (age 24 years); 5 years' City, West End and Suburban experience; disengaged from Monday next. Write or 'phone N. R., 8 Stamford Hill Mansions, N.16. 'Phone: Stamford Hill 1572.

**UNQUALIFIED** (24) seeks post; good general experience; used to heavy N.H.I.; high-class Toiletries, Photography and Ciné; efficient Salesman. 2/21, Office of this Paper.

**UNQUALIFIED** (36); 20 years' experience City and West End; disengaged September 14. Williams, 132 Chadacre Road, Stoneleigh, Surrey.

## WHOLESALE.

**A** CAPABLE, diligent, well-known gentleman (50) desires re-engagement to represent a firm of unassailable integrity and principles; professional propaganda and/or trade work; own car; Hants and West; sound credentials. "Stability," c/o General Gordon Hotel, Weymouth.

**A** LIVE Representative, with strongly established connection amongst Chemists, Hairdressers and Stores, whole of London, is open to consider well-known house of repute; can prove ability by actual records. Particulars to Keen, 3/21, Office of this Paper.

**A** QUALIFIED Scot (25), now managing West End Pharmacy, wishes opening in the Wholesale; interview arranged. 4/6, Office of this Paper.

**A** ADMINISTRATIVE Representative, Secretarial; Biological or Pharmaceutical Specialities; 10 years' experience (age 36). 3/43, Office of this Paper.

**L**ONDON Situation required by thoroughly experienced Tablet Maker; able to take charge of department; good knowledge of Pills, Lozenges, etc. 231/11, Office of this Paper.

**L**ONDON situation required, experienced Tablet Coater and Granulator seeks change (female). E. C., 146 Woodvale, Forest Hill, S.E.23.

**M**ANAGING DIRECTORS.—If requiring reliable Executive, Qualified, with successful record management administration, sales publicity, propaganda, write to P.C.B. 175/36, Office of this Paper.

**M**EDICAL Representation, Qualified Pharmacist, young, desires join first-class house; experienced Propaganda; requisite appearance, personality, initiative; knowledge Therapeutics; administrative and interviewing ability; drive car; resident Edinburgh; commence immediately. 5/2, Office of this Paper.

**M**R. H. H. PHILLIPS, managing director of Cbalson Frères, Ltd., seeks appointment with prospects, where his initiative and practical knowledge of the trade can be profitably employed. 1/4, Office of this Paper.

**P**ERFUMERY Laboratory Assistant (aged 25); 10 years' experience of good-class Cosmetics. George Morrison, 57 Peckham Road, S.E.5.

**S**COTLAND.—Representative, excellent references, long-standing connection with all Wholesale and Retail Chemists, Stores, etc., desires well advertised lines, on commission and part expenses basis. 3/13, Office of this Paper.

**T**RAVELLER, excellent connection Chemists, Stores, etc., in South London and Eastern Counties, desires to represent an established house in either; good references. N. I., 69 Friern Road, London, S.E.22.

**W**IDOW, disengaged, seeks work in Factory in any capacity. M. B., 47 Lowden Road, S.E.24.

**Y**OUNG Gentleman (foreigner) seeks for situation in Pharmaceutical Office or Factory; speaks three languages, English, French, German; experienced; salary secondary consideration. P.C.B. 175/25, Office of this Paper.

## COLONIAL, INDIAN AND FOREIGN.

**C**ONTINENTAL.—Highly Qualified Pharmacist, with first-class experience, seeks position of trust, Wholesale or Retail, in France or Germany; excellent credentials. 3/50, Office of this Paper.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.



**CLEAR OUT**—your Old or Damaged Stock of Photo Goods.  
*Why keep them any longer? Turn them into CASH.*  
**I GIVE BEST PRICES** for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers, Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.  
**S. E. HACKETT, 23 July Road, Liverpool**

**LIMITED LIABILITY COMPANY REGISTRATIONS**  
 The prudent man makes his position, and that of his dependents, secure by Limiting his Liability. Costs are not high if the work is placed with  
**THOS. WATTS & WALKER LTD.**  
 who effect registrations North, South, East and West, and you are invited to communicate with them.  
**VALUABLE QUALIFIED EXPERIENCE TO DRAW UPON.**  
**INTERESTS OF CLIENTS ALWAYS UPPERMOST.**  
**ADVICE FREE AND PROMPTLY GIVEN.**  
**SIMPLICITY IN PROCEDURE. GUARANTEED SATISFACTION.**  
 Address: Oxford Chambers, 9 Oxford St., Manchester, 1. 'Phone: Central 6209

## FOR SALE.

(Articles to the value of £5-£50.)

**ALUMINIUM** Collapsible Tubes, 1 in. x 4 in., 3s. 6d. per gross; small quantity only. Apply L. Elboz & Son, 94 Ferndene Road, S.E.24.

**CASH** Register, snip, National; prints on tape and gives total of takings; little used; perfect. Write, R. Trent, 43 St. Mary's Square, Kennington, S.E.

## MISCELLANEOUS.

**CHEMISTS' FITTINGS.**—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass-fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate Glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., at competitive prices. **F. MAUND & E. BERG (SHOWCASES), LTD.**, Shop Fitters and Shop Front Builders, 175/9 Old Street, London, E.C.1.

**WANTED** at Once, complete set of really good second-hand fixtures and fittings for new Pharmacy, comprising Counter, Wall Case, Show Cases (various); Counter, Dispensing and Personal Weighing Machines, Pill Machine, Pessary and Suppository Moulds, Cachet Machine; sketches or photographs, with measurements and lowest possible price. 1/7, Office of this Paper.

**10 FT.** Drug Fitting; 6 ft. Wall Case; 12 ft. Glass-fronted Counter, nests of Counter Drawers; 6 ft. Dispensing Screen and Counter; Counter Case; Personal Weighing Machine; Chair; all reconditioned and polished. **PHILIP JOSEPHS & SONS, LTD.**, 90/92 St. John Street, Clerkenwell, E.C.1. Telephone: Clerkenwell 2191. "Pharmacy fitters for over a century."

**£9—COMPLETE CHEMIST FITTINGS** at any price you wish to pay. We have erected in our showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists, **D. MATTHEWS & SON, LTD.**, "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

## THE SUPPLY OF SUPPLEMENTS

On receipt of addressed Post Office Wrappers (not more than six at a time) stamped 1d. the Chemist and Druggist Supplement will be forwarded without cost.

**LOOSE STAMPS WILL NOT BE ACCEPTED**  
 If wrappers bear a halfpenny stamp only, postal delivery may be delayed.

## The Chemist and Druggist COMPACT LIBRARY

**PHARMACEUTICAL FORMULAS (P.F., Vol. I).**  
 The tenth edition of this, the most complete pharmaceutical formulary in the English language, is devoted to the official and semi-official preparations of practically every country in the world. This volume (published 1929) contains 1146 pages.  
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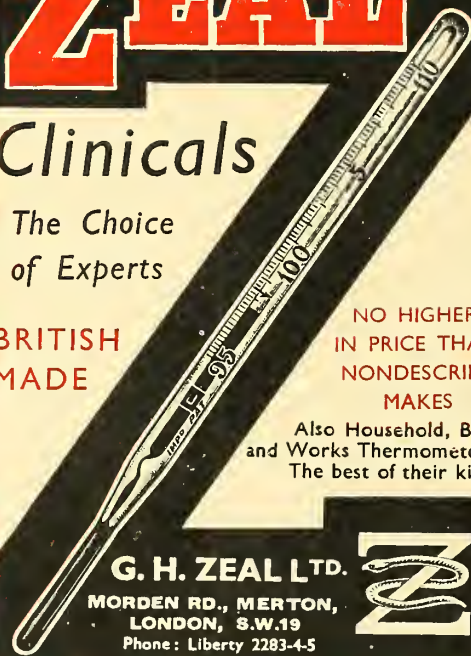
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